



# **STIC Search Report**

## **EIC 2100**

**STIC Database Tracking Number: 143603**

**TO: Mahmoud Hassan**  
**Location: 3A18**  
**Art Unit: 2165**  
**Tuesday, February 01, 2005**

**Case Serial Number: 09/723746**

**From: Anne Hendrickson**  
**Location: EIC 2100**  
**RND 4B28**  
**Phone: 571-272-3490**

**Anne.Hendrickson@uspto.gov**

### **Search Notes**

Mahmoud – Attached is an NPL Search on the above referenced case. I conducted the search as if it were a Business Methods search and searched all of the required Business Methods databases. I searched Japio and Derwent, but did not search the full text EPO and PCT patent databases. I have tagged references that I felt might be of particular interest. Please do not limit your review to just those articles, however. If you need the full text of any of the references, just let us know.

Please let me know if you have any questions or would like for me to refocus the search.

Anne



## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Tony Mahmoudi Examiner #: 79360 Date: 1/27/05  
Art Unit: 2165 Phone Number 30 272-4078 Serial Number: 09/723746  
Mail Box and Bldg/Room Location: RND 3A18 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: A Method And System For Recycling Materials  
Inventors (please provide full names): Charles R. Szmanda, Peter Trefonas, III, Richard Hemond, Mark S. Thirsk, Leo L. Linehan, Anthony Zampini  
Earliest Priority Filing Date: 11/28/2000

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

System and method of re-cycling raw materials from a plurality of streams generated by waste stream providers. Waste stream monitoring module. Monitoring production of produced items by waste stream providers. Determination of amount of re-usable raw materials in plurality of waste streams. Waste stream provider interface and communication link. Re-usable materials database communicating with monitoring module. Storing amount of reusable raw material. Putting up raw materials up for sale/purchase. Associating purchase price with material. User interface, enabling users to view re-usable material and access the database. Waste purchasing module. Receive purchase request. Select suitable waste based on purchase request. Fulfill purchase request. Recovery plant recovers specified waste. Transport waste to user. Waste stream consisting of original & waste raw material.

## STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Ann Henderson</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>2-3490</u>	AA Sequence (#) _____	Dialog <u>✓</u>
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>1/28/05</u>	Bibliographic <u>✓</u>	Dr. Link _____
Date Completed: <u>2/1/05</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>45</u>	Fulltext <u>✓</u>	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet <u>✓</u>
Online Time: <u>299</u>	Other _____	Other (specify) _____

?ds

Set	Items	Description
S1	1180570	WASTE? ? OR WASTESTREAM?
S2	1059267	DB OR DBS OR OODB OR RDB OR RDBMS OR RDBS OR RD OR DATABAS- E? OR DATABANK? OR DATAMIN? OR DATA() (BASE? OR BANK? OR MINE? OR MINING)
S3	2011416	WEB OR INTERNET? OR NET OR WWW OR WEBPAGE? OR WEB() PAGE? OR WEBSITE? OR WEB() SITE? OR ONLINE OR ON() LINE
S4	2379544	NETWORK? OR NET() WORK? OR LAN OR WAN OR SERVER? ? INTRANET? OR EXTRANET
S5	53308	S1 AND S2:S4
S6	2112882	RECYCL? OR RECOVER? OR REUSE? OR REUSING OR REUSABLE? OR - RE() (USE? ? OR USING OR USABLE?) OR DISPOS? OR REPROCESS? OR RE() PROCESS?
S7	14874	S5 AND S1(5N) S6
S8	23537	S1(5N) (AMOUNT? ? OR QUANTITY OR QUANTITIES OR TOTAL? ? OR SUM? ? OR SUMMATION?)
S9	506	S8 AND S7
S10	2658159	PURCHASE? OR BUY? OR SELL? ? OR SELLING OR SOLD OR ACQUIR? OR ACQUISITION? OR TRANSACT?
S11	33	S9 AND S10
S12	26	RD (unique items)
S13	22	S12 NOT PY>2000
S14	1549	S1 AND S6 AND S3/DE, TI
S15	852	S14 AND S1(5N) S6
S16	9352713	(RAW OR ORGANIC) () (MATERIAL? OR SUBSTANCE? OR ELEMENT?) OR CHEMICAL? ? OR COMPOUND?
S17	76990	(S1 OR S16) (5N) (AMOUNT? ? OR QUANTITY OR QUANTITIES OR T- OTAL? ? OR SUM? ? OR SUMMATION?)
S18	36	S15 AND S17
S19	31	RD (unique items)
S20	30	S19 NOT S13
S21	29	S20 NOT PY>2000
S22	1	S21 AND S10

?show files

File 8: Ei Compendex(R) 1970-2005/Jan W3  
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File 434: SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info

File 34: SciSearch(R) Cited Ref Sci 1990-2005/Jan W4  
(c) 2005 Inst for Sci Info

File 62: SPIN(R) 1975-2005/Nov W2  
(c) 2005 American Institute of Physics

File 99: Wilson Appl. Sci & Tech Abs 1983-2004/Nov  
(c) 2004 The HW Wilson Co.

File 266:FEDRIP 2004/Oct

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File 474:New York Times Abs 1969-2005/Jan 31

(c) 2005 The New York Times

?

?t s13/5/1,2,5,6,7,8,9

13/5/1 (Item 1 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

04970446 E.I. No: EIP97093836738

Title: **Development of an automated system to enhance the utilization of industrial residuals in Louisiana**

Author: Tufail, Amer; Fonseca, Daniel; Seals, Roger K.; Knapp, Gerald; Odom, David

Conference Title: Proceedings of the 1996 Air & Waste Management Association's 89th Annual Meeting & Exhibition

Conference Location: Nashville, TN, USA Conference Date: 19960623-19960628

E.I. Conference No.: 46962

Source: Proceedings of the Air & Waste Management Association's Annual Meeting & Exhibition 1996. Air & Waste Management Assoc, Pittsburgh, PA, USA. 14pp 96-RA124A.02

Publication Year: 1996

CODEN: PAMEE5

Language: English

Document Type: CA; (Conference Article) Treatment: A; (Applications); G; (General Review)

Journal Announcement: 9805W1

Abstract: A **database** composed of listings of industrial solid **wastes** for the State of Louisiana is being developed in a cooperative project involving investigators from academia, the State, and the private sector. Historical 'generator' and 'disposer' data are being collected from the files of the Louisiana Department of Environmental Quality and transferred of incorporation into a commercially available **database** system. Among other information, these data include unique generator, **disposer**, parish, and **waste** codes; generator address and contact; **disposer** permit number; **waste quantities**; and **waste** description. The generator and **disposer** information will be tied to ground locations using available latitude and longitude data for each of the respective sites. These spatial data will be incorporated into a geographic information system (GIS) that will also include information concerning highways and waterways, municipal boundaries, etc. Once completed, this **database** system will be linked to an expert materials evaluation system that is being developed separately. The combined use of the residuals **database** and materials evaluation expert system will require that a materials properties **database** be developed to contain physical, chemical, mineralogical, and environmental data for a given residual material. Once such a material properties **database** is established for a given residual, the residual can be evaluated by the expert system to assess the potential utilization options for the residual. When completed, the system will have application for use with both industrial and municipal solid **waste**. (Author abstract)

Descriptors: **\*Waste** utilization; **Database** systems; Data **acquisition**; Environmental protection; Geographic information systems; Expert systems

Identifiers: Industrial residuals; Louisiana; Solid **wastes**;

Environmental quality

Classification Codes:

723.4.1 (Expert Systems)

452.3 (Industrial Wastes); 723.3 (Database Systems); 723.2 (Data Processing); 454.2 (Environmental Impact & Protection); 903.3 (Information Retrieval & Use); 723.4 (Artificial Intelligence)

452 (Sewage & Industrial Wastes Treatment); 723 (Computer Software);

454 (Environmental Engineering); 903 (Information Science)

45 (POLLUTION & SANITARY ENGINEERING); 72 (COMPUTERS & DATA PROCESSING); 90 (GENERAL ENGINEERING)

13/5/2 (Item 2 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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04412509 E.I. No: EIP96053197605

Title: Environmental control - better use of product or how to make money from environmental waste

Author: Mooney, Eric F.

Corporate Source: Tytronics Inc, Bedford, MA, USA

Conference Title: Proceedings of the 1996 41st Annual ISA Analysis Division Symposium

Conference Location: Framingham, MA, USA Conference Date: 19960421-19960424

Sponsor: ISA

E.I. Conference No.: 44696

Source: Annual ISA Analysis Division Symposium - Proceedings v 29 1996. Instrument Society of America, Research Triangle Park, NC, USA. p 207-216

Publication Year: 1996

CODEN: ANDIEY ISSN: 5617-1099

Language: English

Document Type: CA; (Conference Article) Treatment: A; (Applications); X ; (Experimental)

Journal Announcement: 9607W3

Abstract: Protecting the environment from gaseous emissions leads to the formation of a considerable amount of waste. This waste may be greatly reduced by having proper on-line measurements to determine whether the level of potential waste gas is better recycled and used again within the process. Several examples of this cost saving approach will be discussed. When the gas is not at a suitable concentration to be economically recycled and has to be scrubbed, the spent scrubber material may be sold to assist in the manufacture of another product, or may itself become the raw material for production purposes. Examples of this latter approach will be discussed, but in each case rigorous control and analysis of the spent solution is vital if the required quality specification is to be met. Cases of refineries supplying wood pulp plants with 'spent caustic' for the digesters and the 'production' of building grade gypsum from the scrubbing of power plant stacks will be described. Special attention will be paid to the analytical techniques and the type of on-line analyzer used for the applications. (Author abstract) 2 Refs.

Descriptors: \*Gas emissions; Environmental protection; Air pollution control; Wastes; Analytic equipment; Online systems; Cost effectiveness; Hydrogen sulfide; Ammonia

Identifiers: Phosgene; Spent caustic; Waste gas; Power plant stacks; Online analyzer

Classification Codes:

451.1 (Air Pollution Sources); 454.2 (Environmental Impact & Protection); 451.2 (Air Pollution Control); 802.1 (Chemical Plants & Equipment); 722.4 (Digital Computers & Systems); 911.2 (Industrial Economics)

451 (Air Pollution); 454 (Environmental Engineering); 802 (Chemical Apparatus & Plants); 722 (Computer Hardware); 911 (Industrial Economics)

45 (POLLUTION & SANITARY ENGINEERING); 80 (CHEMICAL ENGINEERING); 72 (COMPUTERS & DATA PROCESSING); 91 (ENGINEERING MANAGEMENT)

13/5/5 (Item 5 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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00357599 E.I. Monthly No: EI7404021489

Title: SOLID WASTE AND REMOTE SENSING.

Author: Garofalo, Donald; Wobber, Frank J.

Corporate Source: Earth Satell Corp, Washington, DC

Source: Photogrammetric Engineering v 40 n 1 Jan 1974 p 45-59

Publication Year: 1974

CODEN: PGMEA9

Language: ENGLISH

Journal Announcement: 7404

Abstract: In order to implement practical solid-waste planning and management at the regional level, data acquisition systems which are unrestricted by jurisdictional boundaries are needed. High-altitude aircraft remote sensing provides a regional working data base and information including waste distributions, waste characteristics, and

**quantities** . Solid- waste **quantities** for a given area can be estimated from high-altitude aircraft photographs providing collateral statistics such as average **amount** of **waste** generated by a **waste** source unit, e. g. , residential dwellings, commercial or industrial facilities or by population are available. Interpretation of high-altitude aircraft remote-sensing records provides essential data for solid- **waste** planners including the location of **waste disposal** sites and facilities and contributes toward selecting the most suitable disposal method or methods for a given region. 5 refs.

Descriptors: \*PHOTOGRAMMETRY; **WASTE DISPOSAL** ; AERIAL PHOTOGRAPHY; REGIONAL PLANNING

Identifiers: REMOTE SENSING

Classification Codes:

403 (Urban & Regional Planning & Development); 405 (Construction Equipment & Methods); 452 (Sewage & Industrial Wastes Treatment); 742 (Cameras & Photography); 901 (Engineering Profession)

40 (CIVIL ENGINEERING); 45 (POLLUTION & SANITARY ENGINEERING); 74 (OPTICAL TECHNOLOGY); 90 (GENERAL ENGINEERING)

13/5/6 (Item 1 from file: 103)

DIALOG(R)File 103:Energy SciTec

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04443494 JP-98-OH0440; EDB-99-024173

**Title: New technologies to improve environment management**

Original Title: Kankyo kanri shien gijutsu no shintenkai

Author(s): Teramoto, K.; Ichikawa, Y.; Midorikawa, T. (Hitachi, Ltd., Tokyo (Japan))

Source: Hitachi Hyoron v 80:8. Coden: HIHYA4 ISSN: 0367-5874

Publication Date: 1 Aug 1998

p 21-24

Document Type: Journal Article

Language: Japanese

Journal Announcement: EDB9906

Subfile: ETD (Energy Technology Data Exchange). NEDO (Japan (sent to DOE from))

US DOE Project/NonDOE Project: NP

Country of Origin: Japan

Country of Publication: Japan

**Abstract:** With the diffusion in progress of ISO 14001 that governs international environmental standards, environmental management has become an important managerial project, and the burden is growing heavier on the shoulders of responsible persons. Among Hitachi, Ltd., offices, an environmental management assistance tool EcoAssist is in service on the in-house computer **network** , with which employees can input their data and read documents at their personal computer terminals. Since the corporation began offering information to the outside, more than 100 contracts have been signed in a year, and the service has come to constitute a primary system in the scene of ISO 14001 certificate **acquisition** and maintenance. As for the handling of **waste** materials, it is so managed that records will be kept in storage covering their release, transportation, and disposal, although some handwork is necessary. Efforts are also being made to construct an information system, in which activities will be closely coordinated on a **network** throughout the stages of designing, manufacturing, utilization, and **waste disposal** , and a **total** system for environmental management. Some of the required functions have already been developed for these systems, and further endeavors are under way to complete them. 3 refs., 3 figs., 1 tab.

Descriptors: COMPUTER **NETWORKS** ; ENVIRONMENTAL ENGINEERING; ENVIRONMENTAL POLICY; INFORMATION SYSTEMS; ISO; LICENSING; LIFE CYCLE; MANAGEMENT; MANPOWER; PERSONAL COMPUTERS; RECORDING SYSTEMS; **WASTE** MANAGEMENT

Broader Terms: COMPUTERS; DIGITAL COMPUTERS; ENGINEERING; GOVERNMENT POLICIES; INTERNATIONAL ORGANIZATIONS; MANAGEMENT; MICROCOMPUTERS

Subject Categories: 290300\* -- Energy Planning & Policy -- Environment, Health, & Safety

990300 -- Information Handling

290202 -- Energy Planning & Policy -- Sociology -- (1992-)  
540000 -- Environment -- (1990-)

13/5/7 (Item 2 from file: 103)  
DIALOG(R)File 103:Energy SciTec  
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04130462 EDB-97-039166

Title: West Siberian Basin hydrogeology: Site characterization of Mayak, Tomsk-7, and Krasnoyarsk-26  
Author(s)/Editor(s): Hoover, K.A.; Foley, M.G.; Allen, E.A.; Alexander, L.J.; McKinley, M.I.  
Corporate Source: Pacific Northwest National Lab., Richland, WA (United States) (Code: 9534822)  
Sponsoring Organization: DOE/EM; USDOE Office of Environmental Restoration and Waste Management, Washington, DC (United States)  
Publication Date: Jan 1997  
(71 p)  
Report Number(s): PNNL-11457  
Order Number: DE97004316  
Contract Number (DOE): AC06-76RL01830  
Document Type: Report  
Language: English  
Journal Announcement: EDB9707  
Availability: OSTI; NTIS; INIS; GPO Dep.  
Distribution: (Report):A (MF):4 MN-2070  
Subfile: ETD (Energy Technology Data Exchange); INS (US Atomindex input); NTS (NTIS). IMS (DOE contractor)  
US DOE Project/NonDOE Project: P  
Country of Origin: United States  
Country of Publication: United States

Abstract: The former Soviet Union has extensive defense-related nuclear production facilities that have released large **amounts** of hazardous and radioactive **waste** materials into the air, surface water, and ground water in areas surrounding the production sites. The key sites of concern are Mayak, Tomsk-7, and Krasnoyarsk-26, all located within the West Siberian Basin. The Pacific Northwest National Laboratory (PNNL), in cooperation with the Russian Ministry of Atomic Energy (Minatom), has been conducting contaminant-migration studies of Mayak, Tomsk-7, and Krasnoyarsk-26 in Western Siberia since 1993. The intent of this program is to maximize use of US and Russian site characterization, contaminant transport modeling, and remediation technology for the benefit of DOE and Minatom site-cleanup activities. Site characterization activities conducted during FY 1996 comprised evaluating the existing **database**, developing methods for synthesizing missing data, and designing an effective means of data and technology transfer. Comparison of the **database**, most of the contents of which have been **acquired** remotely with contaminant transport modeling data requirements allowed the authors to evaluate the utility of data **acquired** remotely for modeling purposes, and to identify gaps in the characterization of Russian **waste - disposal** sites. Identifying these gaps led to the second activity, which was to develop methods for synthesizing missing data from an evaluation of existing data. The authors tested these methods by evaluating geologic fracturing at the Mayak site. The third activity was the development of an effective procedure for data and technology transfer. The goal was to provide the site characterization **database** to Russian modelers in such a way that the data were easily transported, viewed, and manipulated for use in their models. This report summarizes the results of the three site characterization activities performed during FY 1996.

Major Descriptors: \*RADIOACTIVE **WASTE** FACILITIES; \*SITE CHARACTERIZATION  
Descriptors: FUEL REPROCESSING PLANTS; GEOLOGIC FRACTURES; INFORMATION SYSTEMS; INTERNATIONAL COOPERATION; MAPS; MAYAK PLANT; RADIOACTIVE **WASTE DISPOSAL**; RADIONUCLIDE MIGRATION; SIBERIA; USA  
Broader Terms: ASIA; COOPERATION; DEVELOPED COUNTRIES; EASTERN EUROPE; ENVIRONMENTAL TRANSPORT; EUROPE; GEOLOGIC STRUCTURES; MANAGEMENT; MASS TRANSFER; NORTH AMERICA; NUCLEAR FACILITIES; RADIOACTIVE **WASTE**



MANAGEMENT; RUSSIAN FEDERATION; **WASTE DISPOSAL ; WASTE MANAGEMENT**  
Subject Categories: 053001\* -- Nuclear Fuels -- Environmental Aspects --  
Siting -- (1992-)  
052002 -- Nuclear Fuels -- Waste Disposal & Storage  
INIS Subject Categories: C5212\* -- Environmental aspects of siting of  
fission fuel cycle facilities -- (1992-)  
E5200 -- Waste Disposal

13/5/8 (Item 3 from file: 103)  
DIALOG(R)File 103:Energy SciTec  
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04080078 EDB-96-163838  
**Title: An expert system framework for nondestructive waste assay**  
Author(s)/Editor(s): Becker, G.K.  
Corporate Source: Lockheed Martin Idaho Technologies Co., Idaho Falls, ID  
(United States) (Code: 9535744)  
Sponsoring Organization: DOE; USDOE, Washington, DC (United States)  
Conference Title: 37. annual meeting of the Institute of Nuclear Materials  
Management  
Conference Location: Naples, FL (United States) Conference Date: 28-31  
Jul 1996  
Publication Date: 1996  
(6 p)  
Report Number(s): INEL-96/00252 CONF-960767--71  
Order Number: DE96015352  
Contract Number (DOE): AC07-94ID13223  
Document Type: Report; Conference Literature  
Language: English  
Journal Announcement: EDB9623  
Availability: OSTI; NTIS; INIS; GPO Dep.  
Distribution: (Report):A (MF):4 MN-2070  
Subfile: ERA (Energy Research Abstracts); ETD (Energy Technology Data  
Exchange); INS (US Atomindex input); NTS (NTIS). TIC (Technical  
Information Center)  
US DOE Project/NonDOE Project: P  
Country of Origin: United States  
Country of Publication: United States  
Abstract: Management and **disposition** of transuranic (RU) **waste** forms  
necessitates determining entrained RU and associated radioactive  
material **quantities** as per National RU **Waste** Characterization  
Program requirements. Technical justification and demonstration of a  
given NDA method used to determine RU mass and uncertainty in  
accordance with program quality assurance is difficult for many **waste**  
forms. Difficulties are typically founded in **waste** NDA methods that  
employ standards compensation and/or employment of simplifying  
assumptions on **waste** form configurations. Capability to determine and  
justify RU mass and mass uncertainty can be enhanced through  
integration of **waste** container data/information using expert system  
and empirical data-driven techniques with conventional data  
**acquisition** and analysis. Presented is a preliminary expert system  
framework that integrates the **waste** form **data base**, algorithmic  
techniques, statistical analyses, expert domain knowledge bases, and  
empirical artificial intelligence modules into a cohesive system. The  
framework design and bases in addition to module development activities  
are discussed.  
Major Descriptors: \*RADIOACTIVE **WASTES** -- NONDESTRUCTIVE ANALYSIS  
Descriptors: ALPHA-BEARING **WASTES** ; EXPERT SYSTEMS; HIGH-LEVEL RADIOACTIVE  
**WASTES ; WASTE FORMS**  
Broader Terms: CHEMICAL ANALYSIS; MATERIALS; RADIOACTIVE MATERIALS;  
**RADIOACTIVE WASTES ; WASTES**  
Subject Categories: 052000\* -- Nuclear Fuels -- Waste Management  
INIS Subject Categories: E5000\* -- Waste Management

13/5/9 (Item 4 from file: 103)  
DIALOG(R)File 103:Energy SciTec

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03916628 EDB-96-000388

Title: Neural network utility in nondestructive transuranic waste assay, initial investigations

Author(s)/Editor(s): Becker, G.

Corporate Source: EG and G Idaho, Inc., Idaho Falls, ID (United States)  
Pacific Northwest Lab., Richland, WA (United States) (Code: 9507781;  
9512268)

Sponsoring Organization: DOE; USDOE, Washington, DC (United States)

Conference Title: 74. annual Gas Processors Association (GPA) meeting

Conference Location: San Antonio, TX (United States) Conference Date:  
13-15 Mar 1995

Publication Date: 1995

(6 p)

Report Number(s): INEL-95/00263 CONF-9503132--3

Order Number: DE96002525

Contract Number (DOE): AC06-76RL01830; AC07-94ID13223

Document Type: Report; Conference Literature

Language: English

Journal Announcement: EDB9601

Availability: OSTI; NTIS; INIS; GPO Dep.

Distribution: (Report):0 (MF):4 MN-2020

Subfile: ERA (Energy Research Abstracts); ETD (Energy Technology Data  
Exchange); INS (US Atomindex input); NTS (NTIS). IIA (DOE contractor)

US DOE Project/NonDOE Project: P

Country of Origin: United States

Country of Publication: United States

Abstract: The determination of transuranic (TRU) and associated radioactive material quantities entrained in waste forms is a necessary component of waste characterization. Measurement performance requirements are specified in the National TRU Waste Characterization Program quality assurance plan for which compliance must be demonstrated prior to the transportation and disposition of wastes. With respect to this criterion, the existing TRU nondestructive waste assay (NDA) capability is inadequate for a significant fraction of the US Department of Energy (DOE) complex waste inventory. This is a result of the general application of safeguard-type measurement and calibration schemes to waste form configurations. Incompatibilities between such measurement methods and actual waste form configurations complicate regulation, compliance demonstration processes and illustrate the need for an alternate measurement interpretation paradigm. Hence, it appears necessary to supplement or perhaps restructure the perceived solution and approach to the waste NDA problem. The first step is to understand the magnitude of the waste matrix/source attribute space associated with those waste form configurations in inventory and how this creates complexities and unknowns with respect to existing NDA methods. Once defined and/or bounded, a conceptual method must be developed that specifies the necessary tools and the framework in which the tools are used. A promising framework is a hybridized neural network structure. Discussed are some typical complications associated with conventional waste NDA techniques and how improvements can be obtained through the application of neural networks.

Major Descriptors: \*ALPHA-BEARING WASTES -- DATA ACQUISITION ;

\*ALPHA-BEARING WASTES -- MONITORING; \*DATA ACQUISITION SYSTEMS --  
DESIGN; \*NEURAL NETWORKS -- USES

Descriptors: NONDESTRUCTIVE ANALYSIS; RADIOACTIVE WASTE MANAGEMENT

Broader Terms: CHEMICAL ANALYSIS; MANAGEMENT; MATERIALS; RADIOACTIVE  
MATERIALS; RADIOACTIVE WASTES ; WASTE MANAGEMENT; WASTES

Subject Categories: 052000\* -- Nuclear Fuels -- Waste Management

420500 -- Engineering -- Materials Testing

440100 -- Radiation Instrumentation

INIS Subject Categories: E5000\* -- Waste Management

E1700 -- Materials Testing

E4100 -- Particle & Radiation Detection & Measuring Instruments &  
Methods

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?t s21/5/3,13,11

21/5/3 (Item 3 from file: 8)  
DIALOG(R)File 8:EI Compendex(R)  
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03307397 E.I. Monthly No: EI9110126788

**Title:** Springfield's MRF goes on - line .

**Author:** Combs, Susan

**Source:** Waste Age v 21 n 9 Sep 1990 p 73-74, 76

**Publication Year:** 1990

**CODEN:** WAGEAE **ISSN:** 0043-1001

**Language:** English

**Document Type:** JA; (Journal Article) **Treatment:** A; (Applications)

**Journal Announcement:** 9110

**Abstract:** Resource **Recovery** Systems (RRS) in Essex, Conn., is recognized as one of the country's leading materials **recovery** firms, specializing in MRF design, construction, materials marketing, and day-to-day operations. The Springfield **Recycling** Facility in Springfield, Mass., is RRS's most technically advanced plant; it can process more than 240 tpd of old newspapers, corrugated cardboard, office paper, and magazine stock, as well as aluminum cans and colored glass. The Springfield MRF's mission is to minimize the **amount** of **waste** coming out of the plant. In conjunction with this philosophy, an off-site composting project slashes the MRF's **amount** of unsalvageable **waste** even further. Equipped with two processing lines, one dedicated to paper and the other for glass and aluminum, the facility is

**Descriptors:** \*REFUSE **DISPOSAL** --\* **Recycling** ; MUNICIPAL ENGINEERING-- Springfield, Massachusetts; MACHINERY; **WASTE DISPOSAL** --Composting

**Identifiers:** RESOURCE **RECOVERY**

**Classification Codes:**

452 (Sewage & Industrial Wastes Treatment); 403 (Urban & Regional Planning & Development); 601 (Mechanical Design)

45 (POLLUTION & SANITARY ENGINEERING); 40 (CIVIL ENGINEERING); 60 (MECHANICAL ENGINEERING)

21/5/13 (Item 8 from file: 103)

DIALOG(R)File 103:Energy SciTec

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03327219 EDB-92-081517

**Title:** An online analysis technique for estimating the potential of volatile organics emission from hazardous wastes

**Author(s):** Mitra, S.; Jayanty, R.K.M.; Gholson, A. (Research Triangle Inst., Research Triangle Park, NC (United States)); McAllister, G.; Dishakjian, R. (Environmental Protection Agency, Research Triangle Park, NC (United States))

**Title:** 1991 EPA/AWMA international symposium on measurement of toxic and related air pollutants

**Author(s)/Editor(s):** Gay, B.W. Jr. (ed.)

**Conference Title:** International Air and Waste Management (AWMA) symposium on measurement of toxic and related air pollutants

**Conference Location:** Durham, NC (United States) **Conference Date:** 7-10 May 1991

**Publisher:** Washington, DC (US) Environmental Protection Agency

**Publication Date:** 1991

p 150 (222 p)

**Report Number(s):** CONF-910555--

**Document Type:** Analytic of a Book; Conference Literature

**Language:** In English

**Journal Announcement:** EDB9211

**Subfile:** ETD (Energy Technology Data Exchange). JMT (DOE contractor)

**US DOE Project/NonDOE Project:** NP

**Country of Origin:** United States

**Country of Publication:** United States

**Abstract:** Though many aspects of hazardous **waste** managements have been well studied, not much is known about the emission of volatile organics

(VOs) into the atmosphere from these wastes. Significant amounts of volatile organic compounds (VOs) are emitted from a variety of hazardous wastes and waste streams in different industries. A prediction of the amount of volatile organic emission is important for managing these wastes. The purpose of this study was to develop and evaluate a test method to measure and regulate the amount of VOCs given off from different types of wastes. It was desirable to develop a method by which the volatile organics including the halogenated organic compounds could be recovered from the waste and the analyzed. Several candidate test methods for removal of VOCs from wastes were considered. The gravimetric purge and trap method was selected and modified. The technique involved suspending the waste in matrix containing H<sub>2</sub>O and polyethylene glycol and purging with a flow of N<sub>2</sub>. The evolving gases were then analyzed by on-line flamed ionization detector (FID) and electrolytic conductivity detector (EICD). The FID measured the amount of carbon expressed as mg of C<sub>4</sub> and the ILCD measured the amount of chlorine expressed as mg Cl. The total organic was calculated by adding the two values. Thus, this method was suitable for both hydrocarbons and halogenated organic compounds. In this study, synthetic wastes representing different types of waste matrices were evaluated. Modifications to the experimental apparatus were also made to simplify the operation.

Major Descriptors: \*HAZARDOUS MATERIALS -- WASTE MANAGEMENT; \*ORGANIC COMPOUNDS -- CHEMICAL ANALYSIS

Descriptors: AIR POLLUTION; AIR POLLUTION MONITORING; ECOLOGICAL CONCENTRATION; VOLATILE MATTER

Broader Terms: MANAGEMENT; MATERIALS; MATTER; MONITORING; POLLUTION

Subject Categories: 540120\* -- Environment, Atmospheric -- Chemicals Monitoring & Transport -- (1990-)

21/5/11 (Item 6 from file: 103)

DIALOG(R)File 103:Energy SciTec

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03584027 EDB-93-162905

Title: LLNL on - line surplus chemical exchange data base

Author(s)/Editor(s): Gonzalez, M.A.

Corporate Source: Lawrence Livermore National Lab., CA (United States)  
(Code: 9513035)

Sponsoring Organization: DOE; USDOE, Washington, DC (United States)

Conference Title: 9. waste minimization and pollution prevention conference

Conference Location: San Francisco, CA (United States) Conference Date:

13-15 Apr 1993

Publication Date: 14 Apr 1993

(5 p)

Report Number(s): UCRL-JC-113691 CONF-930483--14

Order Number: DE94000301

Contract Number (DOE): W-7405-ENG-48

Document Type: Report; Conference Literature

Language: English

Journal Announcement: EDB9324

Availability: OSTI; NTIS; GPO Dep.

Distribution: (Report):0 (MF):4 MN-700

Subfile: ERA (Energy Research Abstracts); ETD (Energy Technology Data Exchange); NTS (NTIS). TIC (Technical Information Center)

US DOE Project/NonDOE Project: P

Country of Origin: United States

Country of Publication: United States

Abstract: Lawrence Livermore National Laboratory (LLNL) is a US Department of Energy (DOE)' research and development (R D) facility operated by the University of California. The R D activities conducted at LLNL require the use of a wide variety of chemicals which are purchased in sufficient quantities to ensure that the necessary supply is on-hand to meet programmatic schedules and commitments. Purchasing control measures minimize excess inventories of unused chemicals, but small quantities of opened and unopened surplus chemicals still remain at the conclusion of research activities. Drum quantities of surplus

chemicals also can be generated if a programmatic activity is abruptly terminated because of loss of funding. A real-time system was needed to route unused surplus chemicals to new experiments and programs instead of to waste treatment and disposal facilities. Representatives from four LLNL organizations (Lasers, Defense Systems/Nuclear Design, Chemistry, and Business Services) combined their skills and ideas to develop and implement an on-line surplus chemical exchange system for use at LLNL. An electronic surplus chemical bulletin board, referred to as the LLNL Chemical Exchange Data Base, is the product of the group's efforts.

Major Descriptors: \*INFORMATION SYSTEMS -- DESIGN; \*INORGANIC COMPOUNDS -- INVENTORIES; \*ORGANIC COMPOUNDS -- INVENTORIES

Descriptors: COMPUTERS; LAWRENCE LIVERMORE LABORATORY

Broader Terms: NATIONAL ORGANIZATIONS; US AEC; US DOE; US ERDA; US ORGANIZATIONS

Subject Categories: 990301\* -- Information Handling -- Data Handling -- (1992-)

400000 -- Chemistry

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Set	Items	Description
S1	1246306	WASTE? ? OR WASTESTREAM? OR WASTEWATER
S2	1079533	DB OR DBS OR OODB OR RDB OR RDBMS OR RDBS OR RD OR DATABAS- E? OR DATABANK? OR DATAMIN? OR DATA() (BASE? OR BANK? OR MINE? OR MINING)
S3	2165186	WEB OR INTERNET? OR NET OR WWW OR WEBPAGE? OR WEB() PAGE? OR WEBSITE? OR WEB() SITE? OR ONLINE OR ON() LINE
S4	2482551	NETWORK? OR NET() WORK? OR LAN OR WAN OR SERVER? ? INTRANET? OR EXTRANET
S5	57029	S1 AND S2:S4
S6	2136205	RECYCL? OR RECOVER? OR REUSE? OR REUSING OR REUSABLE? OR - DISPOS? OR REPROCESS?
S7	21590	S5 AND S6
S8	9407455	(RAW OR ORGANIC) () (MATERIAL? OR SUBSTANCE? OR ELEMENT?) OR CHEMICAL? ? OR COMPOUND?
S9	7438	S7 AND S8
S10	5051124	PURCHASE? OR BUY? OR SELL? ? OR SELLING OR SOLD OR ACQUIRE? OR ACQUISITION? OR COST? ? OR TRANSACT?
S11	1444	S9 AND S10
S12	924	S11 AND S1(5N)S6
S13	211	S12 AND S1(5N)S10
S14	182	RD (unique items)
S15	175	S14 NOT PY>2000
S16	40	S15 AND (WASTE() STREAM? ? OR WASTESTREAM? OR WASTE() WATER - OR WASTEWATER)
S17	307	S9 AND (PURCHASE? OR BUY? OR SELL? ? OR SELLING OR SOLD OR ACQUIRE? OR ACQUISITION? OR TRANSACT?)
S18	219	S17 AND S1(5N)S6
S19	27	S18 AND S1(5N) (PURCHASE? OR BUY? OR SELL? ? OR SELLING OR SOLD OR ACQUIRE? OR ACQUISITION? OR TRANSACT?)
S20	22	RD (unique items)
S21	1162	S7 AND (PURCHASE? OR BUY? OR SELL? ? OR SELLING OR SOLD OR ACQUIRE? OR ACQUISITION? OR TRANSACT?)
S22	1527823	B2B OR B2C OR P2P OR BUSINESS(2W) (BUSINESS OR CLIENT? OR C- ONSUMER?) OR PEER(2W) PEER OR ECOMMERCE OR E() COMMERCE
S23	70	S21 AND S22
S24	66	RD (unique items)
S25	52	S24 NOT PY>2000

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File 8: Ei Compendex(R) 1970-2005/Jan W3  
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(c) 2005 American Institute of Physics

File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Nov

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File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13

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?t s20/5/4,10

20/5/4 (Item 2 from file: 103)

DIALOG(R)File 103:Energy SciTec

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04007742 EDB-96-091502

Title: The SWAP SHOP: A surplus materials exchange network at DOE's Oak Ridge Reservation

Author(s)/Editor(s): Bell, L.H.; Birch-Kennedy, S.

Corporate Source: Oak Ridge National Lab., TN (United States) (Code: 4832000)

Sponsoring Organization: DOE; USDOE, Washington, DC (United States)

Conference Title: 9. waste minimization and pollution prevention conference

Conference Location: San Francisco, CA (United States) Conference Date:

13-15 Apr 1993

Publication Date: [1993]

(14 p)

Report Number(s): CONF-930483-16

Order Number: DE96010738

Contract Number (DOE): AC05-84OR21400

Document Type: Report; Conference Literature

Language: English

Journal Announcement: EDB9613

Availability: OSTI; NTIS; INIS; GPO Dep.

Distribution: (Report):A (MF):4 MN-400

Subfile: ERA (Energy Research Abstracts); ETD (Energy Technology Data Exchange); INS (US Atomindex input); NTS (NTIS). IMS (DOE contractor)

US DOE Project/NonDOE Project: P

Country of Origin: United States

Country of Publication: United States

Abstract: The diversity and continually changing nature of the research and production programs at the ORR plant sites, as well as the size of the facilities and their physical separation on the ORR, lead to the buildup of surplus equipment and materials from canceled or completed projects, changes in work orders or directives, or over-procurement of particular items or materials. Many times, for lack of a means to find legitimate uses for these excess items, they have been **disposed** of as **wastes** or **sold** as salvage. Recognizing that this situation prevails at most, if not all, government facilities, Congress has enacted legislation encouraging the establishment of **waste** minimization, pollution prevention, and cost avoidance measures throughout government-owned facilities. In response to this, the Secretary of Energy has instituted a high-priority DOE initiative to develop, promote, and implement **waste** minimization and pollution prevention at government installations. One result of the increased awareness and emphasis on environmental concerns and improved resource management is the recent grassroots development of a surplus materials exchange **network** developed and operated on a voluntary basis by Environmental Protection Officers (EPOs) at the Oak Ridge installations. The EPOs are full-time or part-time staff members employed by each division to provide guidance and assistance for achieving compliance with all environmental regulatory requirements and to resolve **waste disposal** problems. The materials exchange **network**, called the SWAP SHOP, provides an EPO communications and problem-solving **network** to help eliminate unnecessary **disposal** of usable surplus **chemicals** and equipment at the Oak Ridge plant sites.

Major Descriptors: \*OAK RIDGE RESERVATION -- NONRADIOACTIVE **WASTE** MANAGEMENT

Descriptors: COMPLIANCE; EQUIPMENT; MATERIALS; POLLUTION ABATEMENT; POLLUTION REGULATIONS; **RECYCLING**; **WASTE** PRODUCT UTILIZATION

Broader Terms: MANAGEMENT; NATIONAL ORGANIZATIONS; REGULATIONS; US DOE; US ERDA; US ORGANIZATIONS; **WASTE** MANAGEMENT

Subject Categories: 052000\* -- Nuclear Fuels -- Waste Management

INIS Subject Categories: E5000\* -- Waste Management

20/5/10 (Item 1 from file: 6)



DIALOG(R) File 6:NTIS  
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1744827 NTIS Accession Number: PB93-212439

**EPA's Research in LCA Methodology**

Curran, M. A. ; Vigon, B. W.

Environmental Protection Agency, Cincinnati, OH. Risk Reduction Engineering Lab.

Corp. Source Codes: 034122084;

Sponsor: Battelle, Columbus, OH.

Report No.: EPA/600/A-93/154

1993 12p

Languages: English Document Type: Journal article

Journal Announcement: GRAI9319

Pub. in Air and Waste Management Association Conference (86th), Denver, CO., June 13-18, 1993. Prepared in cooperation with Battelle, Columbus, OH.

Product reproduced from digital image. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A03/MF A01

Country of Publication: United States

Life-Cycle Assessment (LCA) is a technical, **data - based** and holistic approach to define and subsequently reduce the environmental burdens associated with a product, process, or activity by identifying and quantifying energy and material usage and **waste** discharges, assessing the impact of those **wastes** on the environment, and evaluating and implementing opportunities to effect environmental improvements. The assessment includes the entire life-cycle of the product, process or activity encompassing extraction and processing of **raw materials**, manufacturing, transportation and distribution, use/ **reuse**, **recycling** and final **disposal**. LCA is a useful tool for evaluating the environmental consequences of a product, process, or activity, however, current applications of LCA have not been performed in consistent or easily understood ways. The EPA recognized the need to develop an LCA framework which could be used to provide consistent use across the board. Also, additional research is needed to enhance the understanding about the steps in the performance of an LCA and its appropriate usage. The paper will present the research activities of the EPA leading toward the development of an acceptable method for conducting LCA's.

Descriptors: \*Service life; \*Environment pollution; \*Environmental protection; Pollution control; Pollution abatement; **Waste disposal**; **Waste recycling**; **Waste** management; Manufacturing; Production; **Acquisition**; Maintenance; Reprints

Identifiers: NTISEPAORD

Section Headings: 68GE (Environmental Pollution and Control--General)

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25/5/7, 19, 35, 36, 43

25/5/7 (Item 7 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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05542213 E.I. No: EIP00045149275

Title: Three major vendors partner with **fibermarket.com**

Author: Anon

Source: Recycled Paper News v 10 n 6 2000. 1 pp

Publication Year: 2000

CODEN: RPNEF2 ISSN: 1051-9831

Language: English

Document Type: JA; (Journal Article) Treatment: G; (General Review)

Journal Announcement: 0006W2

Abstract: Three major scrap paper suppliers that **sell** more than a million tons, DK Trading, International Cellulose and Manchester Paper **Recycling** have formed **business** alliances with **fibermarket.com**, an electronic commerce portal for the paper industry. **Fibermarket.com** said the independent packers and brokers of **recovered** fiber bring a fundamental understanding of the supply side of the industry and provide a critical market mass of **recovered** fiber tons to be **transacted** on the **fibermarket.com Web site**.

Descriptors: \*Paper and pulp industry; Electronic commerce; World Wide **Web**; International trade; Marketing; Sales; Strategic planning; **Recycling**; **Waste paper**

Identifiers: Scrap papers; **Business** alliances

Classification Codes:

723.5 (Computer Applications); 911.4 (Marketing); 912.2 (Management)

811 (Cellulose, Paper & Wood Products); 723 (Computer Software); 911 (Industrial Economics); 912 (Industrial Engineering & Management)

81 (CHEMICAL PROCESS INDUSTRIES); 72 (COMPUTERS & DATA PROCESSING); 91 (ENGINEERING MANAGEMENT)

25/5/19 (Item 8 from file: 103)  
DIALOG(R)File 103:Energy SciTec  
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03584027 EDB-93-162905

Title: **LLNL** on - line **surplus chemical exchange** data base

Author(s)/Editor(s): Gonzalez, M.A.

Corporate Source: Lawrence Livermore National Lab., CA (United States)  
(Code: 9513035)

Sponsoring Organization: DOE; USDOE, Washington, DC (United States)

Conference Title: 9. waste minimization and pollution prevention conference

Conference Location: San Francisco, CA (United States) Conference Date:  
13-15 Apr 1993

Publication Date: 14 Apr 1993

(5 p)

Report Number(s): UCRL-JC-113691 CONF-930483--14

Order Number: DE94000301

Contract Number (DOE): W-7405-ENG-48

Document Type: Report; Conference Literature

Language: English

Journal Announcement: EDB9324

Availability: OSTI; NTIS; GPO Dep.

Distribution: (Report):0 (MF):4 MN-700

Subfile: ERA (Energy Research Abstracts); ETD (Energy Technology Data Exchange); NTS (NTIS). TIC (Technical Information Center)

US DOE Project/NonDOE Project: P

Country of Origin: United States

Country of Publication: United States

Abstract: Lawrence Livermore National Laboratory (LLNL) is a US Department of Energy (DOE)' research and development (R D) facility operated by the University of California. The R D activities conducted at LLNL require the use of a wide variety of chemicals which are **purchased** in sufficient quantities to ensure that the necessary supply is on-hand to

meet programmatic schedules and commitments. Purchasing control measures minimize excess inventories of unused chemicals, but small quantities of opened and unopened surplus chemicals still remain at the conclusion of research activities. Drum quantities of surplus chemicals also can be generated if a programmatic activity is abruptly terminated because of loss of funding. A real-time system was needed to route unused surplus chemicals to new experiments and programs instead of to waste treatment and disposal facilities. Representatives from four LLNL organizations (Lasers, Defense Systems/Nuclear Design, Chemistry, and Business Services) combined their skills and ideas to develop and implement an on-line surplus chemical exchange system for use at LLNL. An electronic surplus chemical bulletin board, referred to as the LLNL Chemical Exchange Data Base, is the product of the group's efforts.

Major Descriptors: \*INFORMATION SYSTEMS -- DESIGN; \*INORGANIC COMPOUNDS -- INVENTORIES; \*ORGANIC COMPOUNDS -- INVENTORIES

Descriptors: COMPUTERS; LAWRENCE LIVERMORE LABORATORY

Broader Terms: NATIONAL ORGANIZATIONS; US AEC; US DOE; US ERDA; US ORGANIZATIONS

Subject Categories: 990301\* -- Information Handling -- Data Handling -- (1992-)

400000 -- Chemistry

25/5/35 (Item 2 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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2605237 H.W. WILSON RECORD NUMBER: BAST00019437

**The Internet moves into the paper recycling industry**

Recycling Today (Cleveland, Ohio: 1992) v. 38 no3 (Mar. 2000) p. 64

DOCUMENT TYPE: Feature Article ISSN: 1096-6323 LANGUAGE: English

RECORD STATUS: Corrected or revised record

ABSTRACT: Recent web sites that aim to play a role in business-to-business transactions for the paper recycling industry are listed, and a brief description of each site is provided.

DESCRIPTORS: Waste paper-- Recycling ; Internet marketing;

25/5/36 (Item 3 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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2605235 H.W. WILSON RECORD NUMBER: BAST00019429

**E-rasing the rulebook**

Taylor, Brian;

Recycling Today (Cleveland, Ohio: 1992) v. 38 no3 (Mar. 2000) p. 46-59, 182

DOCUMENT TYPE: Feature Article ISSN: 1096-6323 LANGUAGE: English

RECORD STATUS: Corrected or revised record

ABSTRACT: The impact of the emerging e-commerce revolution on the recycling industry is discussed. Several web-based companies are aiming to capture the paper industry purchases and sales, including secondary fiber, and metals industry transactions, including scrap metal trades.

DESCRIPTORS: Business-to-business commerce; Paper industry; Waste paper-- Recycling ;

25/5/43 (Item 5 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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06456468

Altpapierhandel im Internet

GERMANY: INTERNET TRADING OF WASTE PAPER

At the beginning of 1997, German Hamburg Trade **Net** GmbH introduced an **Internet** trading platform for **waste** paper. By mouse click, German **waste** management firms can make deals with factories in other European countries, without any intermediaries. The deal is automatically confirmed, and the **business** partner is informed via e-mail or fax. Initially also offers can be placed by phone or fax. For a monthly fee of DM 500, factories and **waste** management firms can make an unlimited number of **transactions** via **Internet**. The trading system also gives a review of the latest market situation.

COMPANY: **INTERNET ; HAMBURG TRADE NET**

PRODUCT: Wholesale Trade (5000); **Recycled** Paper (2621RC);

EVENT: General Management Services (26); Product Design & Development (33);

COUNTRY: Germany (4GER);

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Set	Items	Description
S1	362563	WASTE? ? OR WASTESTREAM? OR WASTEWATER
S2	3685	S1 AND IC=G06F?
S3	2638484	(RAW OR ORGANIC) () (MATERIAL? OR SUBSTANCE? OR ELEMENT?) OR CHEMICAL? ? OR COMPOUND?
S4	167	S2 AND S3
S5	1114435	RECYCL? OR RECOVER? OR REUSE? OR REUSING OR REUSABLE? OR - DISPOS? OR REPROCESS?
S6	62	S4 AND S5
S7	1035691	PURCHASE? OR BUY? OR SELL? ? OR SELLING OR SOLD OR ACQUIRE? OR ACQUISITION? OR COST? ?
S8	18	S6 AND S7
S9	196	S2 AND S5 AND S7
S10	198477	DB OR DBS OR OODB OR RDB OR RDBMS OR RDBS OR RD OR DATABAS- E? OR DATABANK? OR DATAMIN? OR DATA() (BASE? OR BANK? OR MINE? OR MINING)
S11	332025	WEB OR INTERNET? OR NET OR WWW OR WEBPAGE? OR WEB() PAGE? OR WEBSITE? OR WEB() SITE? OR ONLINE OR ON() LINE
S12	392286	NETWORK? OR NET() WORK? OR LAN OR WAN OR SERVER? ? INTRANET? OR EXTRANET
S13	7313	S1 AND S10:S12
S14	1922	S13 AND S5
S15	463	S14 AND S3
S16	81	S15 AND S7
S17	70	S16 NOT S8
S18	497664	B2B OR B2C OR P2P OR BUSINESS(2W) (BUSINESS OR CLIENT? OR C- ONSUMER?) OR PEER(2W) PEER OR ECOMMERCE OR E() COMMERCE
S19	1	S17 AND S18
S20	0	S17 AND IC=G06F?
S21	2	S6 AND (B2B OR B2C OR P2P OR BUSINESS(2W) (BUSINESS OR CLIE- NT? OR CONSUMER?) OR PEER(2W) PEER OR ECOMMERCE OR E() COMMERCE)

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File 347:JAPIO Nov 1976-2004/Aug(Updated 041203)

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File 350:Derwent WPIX 1963-2005/UD,UM &UP=200507

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?t s8/5/1,3,5,7,9,16,18

8/5/1 (Item 1 from file: 347)

DIALOG(R)File 347:JAPIO

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07739764 \*\*Image available\*\*

**RECYCLING** PLAN PREPARATION SYSTEM FOR CONSTRUCTION **WASTE**

PUB. NO.: 2003-233666 [JP 2003233666 A]

PUBLISHED: August 22, 2003 (20030822)

INVENTOR(s): KATAUE KIMITO

OKADA KOICHI

KUROSAWA FUMIO

ECHIGO JUNICHI

MATSUNAGA HIROTAKA

NISHITANI TAKASHI

KONO TATSUHIKO

APPLICANT(s): EG CORPORATION KK

APPL. NO.: 2002-033187 [JP 200233187]

FILED: February 08, 2002 (20020208)

INTL CLASS: **G06F-017/60** ; B09B-005/00

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a system which can realize a market in which a **raw material** can be constantly supplied to manufacturers who produce **recycled** products such as **recycled** concrete, and **purchasers** can also stably **acquire recycled** products having quality and a price they want.

SOLUTION: A market comprising unspecified number of clients who want to discard construction **wastes**, **recycled** product manufacturers, and **purchasers** who want to **acquire recycled** products is formed by collecting a wide range of information using the Internet or the like. The **recycling** plan preparation system for construction **wastes** such as discarded concrete lumps for the market comprises an information database about the clients who want to discard construction **wastes**, an information database about the **recycled** product manufacturers, and an information database about the **purchasers** who want to **acquire recycled** products.

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8/5/3 (Item 3 from file: 347)

DIALOG(R)File 347:JAPIO

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07264580 \*\*Image available\*\*

METHOD FOR **RECYCLING WASTE MATERIAL**

PUB. NO.: 2002-133041 [JP 2002133041 A]

PUBLISHED: May 10, 2002 (20020510)

INVENTOR(s): ABE HIROBUMI

APPLICANT(s): SHINKO KK

APPL. NO.: 2000-325932 [JP 2000325932]

FILED: October 25, 2000 (20001025)

INTL CLASS: **G06F-017/60** ; B09B-005/00; B65F-005/00

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a **waste material recycling** method which makes **waste material recyclable** and effectively utilizes the **waste material** by displaying the **waste material disposed** of by spending processing expenses in the conventional practice as **waste material** for **selling** such as for **raw material** and a product needing repair in an intermediary site on a network such as the Internet and inviting a consumer widely.

SOLUTION: A system for performing a **waste material recycling** method generally comprises a new construction site/demolition site/plant ( **waste material supply source**) 10 where **waste material** is generated, a general user/customer ( **waste material consumer**) 20 needing the **waste material**, a construction company/wrecker/construction organization/ **waste material organization** ( **waste material supplier**) 30 for supplying generated **waste material**, a site ( **waste material intermediary site**) 40 on the Internet, which is provided on the network such as the Internet and mediates the **waste material**, a site operating company (site operator) 50 for operating the site 40 and a price settlement company (price settling means) 60 for settling the **waste material** traded with the site operating company (site operator) 50 as shown in the diagram 1.

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8/5/5 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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016530297 \*\*Image available\*\*  
WPI Acc No: 2004-688863/200467  
XRPX Acc No: N04-545729

Online material e.g. gas, consumption monitoring system, has capacity consumption system that determines future processing capacity of each piece of fabrication equipment disposed within wafer fabrication facility

Patent Assignee: TAIWAN SEMICONDUCTOR MFG CO LTD (TASE-N)

Inventor: HUANG A; LIN C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040181371	A1	20040916	US 2003387071	A	20030312	200467 B

Priority Applications (No Type Date): US 2003387071 A 20030312

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20040181371	A1		14	G06F-011/00	

Abstract (Basic): US 20040181371 A1

NOVELTY - The system has a computer (12) with a controlling processor (14) having a build of material display (18). A manufacturing execution system (34) in communication with a material warehouse (24) controls execution of recipes that are used to make an associated product. A capacity consumption system (40) determines future processing capacity of each piece of fabrication equipment **disposed** within a wafer fabrication facility.

DETAILED DESCRIPTION - The processor **acquires** material move data from the material warehouse, and **acquires** a recipe usage number associated with the pre-defined amount of a representative material from the manufacturing execution system and the capacity consumption system. The processor calculates total material consumption of representative material within the wafer fabrication facility. An INDEPENDENT CLAIM is also included for a method using an online material consumption monitoring system for monitoring material within a wafer fabrication facility.

USE - Used for monitoring a material e.g. gas, photo resist, or slurry, within a wafer fabrication facility e.g. **chemical** -mechanical-polishing facility.

ADVANTAGE - The capacity consumption system determines future processing capacity of each piece of fabrication equipment, thus adjusting the values associated with standard amount of material consumption and the forecast amount of material consumption, to achieve better control of material consumed within the wafer fabrication facility, if the accuracy for both the standard amount of material consumption and the forecast amount of material consumption is low. Therefore, the material wastage and the **costs** associated with material **waste** are reduced.

DESCRIPTION OF DRAWING(S) - DESCRIPTION OF DRAWING - The drawing shows a block diagram overview of an online material consumption management system.

Computer (12)  
Controlling processor (14)  
Build of material display (18)  
Material warehouse (24)  
Manufacturing execution system (34)  
Capacity consumption system (40)  
pp; 14 DwgNo 1/9

Title Terms: MATERIAL; GAS; CONSUME; MONITOR; SYSTEM; CAPACITY; CONSUME; SYSTEM; DETERMINE; FUTURE; PROCESS; CAPACITY; PIECE; FABRICATE; EQUIPMENT ; **DISPOSABLE** ; WAFER; FABRICATE; FACILITY  
Derwent Class: T01; U11  
International Patent Class (Main): **G06F-011/00**  
International Patent Class (Additional): **G06F-015/00**  
File Segment: EPI

8/5/7 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX  
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016114992 \*\*Image available\*\*  
WPI Acc No: 2004-272868/200426  
XRAM Acc No: C04-106200  
XRPX Acc No: N04-215824

Recycling system for waste paper material, regenerates waste material obtained during paper package manufacturing process and utilizes regenerated material as raw material for another package

Patent Assignee: DAIMARU SHIKO KK (DAIM-N); RUISU CORP KK (RUIS-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003334530	A	20031125	JP 2002145170	A	20020520	200426 B

Priority Applications (No Type Date): JP 2002145170 A 20020520

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2003334530	A		10	B09B-005/00	

Abstract (Basic): JP 2003334530 A

NOVELTY - The waste paper material generated during paper package manufacturing process is regenerated and is utilized as the raw material for producing another package based on order from consumers.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for recycling method for waste paper material.

USE - For recycling waste paper material.

ADVANTAGE - The recycling of the waste paper material avoids disposing of the waste paper material and contributes for environmental conservation. The need for intermediate distribution traders is avoided, enabling to supply recycled article at low cost

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the business-connections in the recycling system for waste paper material. (Drawing includes non-English language text).

pp; 10 DwgNo 3/11

Title Terms: **RECYCLE** ; SYSTEM; **WASTE** ; PAPER; MATERIAL; REGENERATE; **WASTE** ; MATERIAL; OBTAIN; PAPER; PACKAGE; MANUFACTURE; PROCESS; UTILISE; REGENERATE; MATERIAL; RAW; MATERIAL; PACKAGE  
Derwent Class: F09; P43; T01; X25  
International Patent Class (Main): B09B-005/00  
International Patent Class (Additional): **G06F-017/60**  
File Segment: CPI; EPI; EngPI

8/5/9 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX



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015794849 \*\*Image available\*\*

WPI Acc No: 2003-857052/200380

XRAM Acc No: C03-242297

XRPX Acc No: N03-684478

**Organic excreta e.g. plastic waste recycle information management system, subtracts credit obtained by selling recycle chemical from total discharge recycling cost**

Patent Assignee: EBARA CORP (EBAR )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003228615	A	20030815	JP 200226034	A	20020201	200380 B

Priority Applications (No Type Date): JP 200226034 A 20020201

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2003228615	A	13	G06F-017/60	

JP 2003228615 A 13 G06F-017/60

Abstract (Basic): JP 2003228615 A

NOVELTY - An arithmetic unit calculates processing cost of an organic excreta ejected from an organization. An acceptance unit accepts order of chemicals during recycling of an organic excreta, and delivers the extracted chemicals obtained during recycling to respective pharmaceuticals corporation. The credit obtained by selling the recycle chemicals is subtracted from total discharge recycling cost.

DETAILED DESCRIPTION - An arithmetic unit (120) calculates processing cost of an organic excreta ejected from an organization (20). An acceptance unit (140) accepts order of chemicals during recycling of an organic excreta, and delivers the extracted chemicals obtained during recycling to respective pharmaceuticals corporation (30). The credit obtained by selling the recycle chemicals is subtracted from total discharge recycling cost.

An INDEPENDENT CLAIM is also included for organic excrete recycle network.

USE - For promoting recycle of organic excreta such as plastic waste, using electronic communication techniques.

ADVANTAGE - Enables an ejection organization to procure chemicals from chemical pharmaceuticals corporation, therefore rate of recycling organic excreta is improved.

DESCRIPTION OF DRAWING(S) - The figure shows the functional block diagram of organic excreta recycling information management system. (Drawing includes non-English language text).

Ejection organization (20)

Chemical pharmaceuticals corporation (30)

Processing acceptance unit (110)

Arithmetic unit (120)

Calculation unit (130)

Acceptance unit (140)

pp; 13 DwgNo 6/6

Title Terms: ORGANIC; EXCREMENT; PLASTIC; WASTE ; RECYCLE ; INFORMATION; MANAGEMENT; SYSTEM; SUBTRACT; CREDIT; OBTAIN; SELL ; RECYCLE ; CHEMICAL ; TOTAL; DISCHARGE; RECYCLE ; COST

Derwent Class: A35; P43; T01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): B09B-003/00; B09B-005/00; C08J-011/12

File Segment: CPI; EPI; EngPI

8/5/16 (Item 12 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014290075 \*\*Image available\*\*

WPI Acc No: 2002-110776/200215

..  
XRPX Acc No: N02-082762

Waste material exchange system for enterprises, recommends transaction of waste material between waste material utilizer and provider, based on waste material requirement application registered by utilizer

Patent Assignee: SHOWA KOGYO KK (SHOB )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001350879	A	20011221	JP 2000168822	A	20000606	200215 B

Priority Applications (No Type Date): JP 2000168822 A 20000606

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2001350879	A		10	G06F-017/60	

Abstract (Basic): JP 2001350879 A

NOVELTY - A waste material provider registers waste material provision information in a homepage (4) of a waste -material exchange recommendation unit. A waste material utilizer browses the provision information and registers waste material requirement application. The recommendation unit recommends transaction of waste material between provider and utilizer based on registered application.

USE - For exchanging waste material of one enterprise to other enterprise which reuses waste material.

ADVANTAGE - Promotion of environmental preservation is achieved as amount reduction of waste material is achieved. Processing cost of waste material and purchasing cost of raw material is reduced as waste material is effectively recycled as a raw material .

DESCRIPTION OF DRAWING(S) - The figure shows a system block diagram of waste material exchange system. (Drawing includes non-English language text).

Homepage (4)

pp; 10 DwgNo 1/11

Title Terms: WASTE ; MATERIAL; EXCHANGE; SYSTEM; TRANSACTION; WASTE ; MATERIAL; WASTE ; MATERIAL; BASED; WASTE ; MATERIAL; REQUIRE; APPLY; REGISTER

Derwent Class: P43; T01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): B09B-005/00

File Segment: EPI; EngPI

8/5/18 (Item 14 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009610154

WPI Acc No: 1993-303702/199338

Related WPI Acc No: 1998-193016

XRPX Acc No: N93-233492

Monitoring handling of hazardous substances at facility - promotes compliance with applicable laws governing such substances by providing integrated approach for all management activities

Patent Assignee: ALTERNATIVE SYSTEMS INC (ALTE-N)

Inventor: CONNORS M D; GORDON E J; STURGEON D H; SZIKLAI A T; CONNERS M D

Number of Countries: 020 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9318466	A1	19930916	WO 93US1976	A	19930301	199338 B
US 5664112	A	19970902	US 92844225	A	19920302	199741

Priority Applications (No Type Date): US 92844225 A 19920302

Cited Patents: 3.Jnl.Ref

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9318466	A1		86	G06F-015/21	

Designated States (National): CA JP KR

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL

PT SE  
US 5664112 A 47 G06F-017/60

Abstract (Basic): WO 9318466 A

The appts. provides management procedures including form generation and compliance with reporting requirements for safe **disposal** of hazardous substances. The appts. includes six functional groupings and a database scheme (71). The six are a Hazardous Materials Index (11) which maintains a **chemical** location table for hazardous substances at a facility. Hazardous Materials Management (31) for tracking the movement and use of hazardous substances at the facility.

Human Resource Management (41) for monitoring exposure of each worker to specified hazardous substances. Hazardous Commitment Management (61) for monitoring compliance requirements. Hazardous **Waste** Management (51) for monitoring selected **waste** management and Hazardous Permit Management (21) for monitoring approvals, renewals and expirations of regulatory agency permits allowing storage, usage or emission of specified hazardous substances.

ADVANTAGE - One integrated system provides six functional groupings and relational database scheme that integrates any number of these gps. and allows them to share or exchange information on hazardous substances for in-house and regulatory compliance related functions.

s. a

Dwg.1/36

Title Terms: MONITOR; HANDLE; HAZARD; SUBSTANCE; FACILITY; PROMOTE;  
COMPLIANT; APPLY; LAW; GOVERN; SUBSTANCE; INTEGRATE; APPROACH; MANAGEMENT  
; ACTIVE

Derwent Class: T01

International Patent Class (Main): G06F-015/21 ; G06F-017/60

File Segment: EPI

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Set	Items	Description
S1	257	WASTE? ? OR WASTESTREAM OR WASTEWATER
S2	9370	DB OR DBS OR OODB OR RDB OR RDBMS OR RDBS OR RD OR DATABAS- E? OR DATABANK? OR DATAMIN? OR DATA() (BASE? OR BANK? OR MINE? OR MINING)
S3	32289	WEB OR INTERNET? OR NET OR WWW OR WEBPAGE? OR WEB()PAGE? OR WEBSITE? OR WEB()SITE? OR ONLINE OR ON()LINE
S4	18384	NETWORK? OR NET()WORK? OR LAN OR WAN OR SERVER? ? INTRANET? OR EXTRANET
S5	149	S1 AND S2:S4
S6	2137	RECYCL? OR RECOVER? OR REUSE? OR REUSING OR REUSABLE? OR - DISPOS? OR REPROCESS?
S7	21	S5 AND S6
S8	58	S5 AND (PURCHASE? OR BUY? OR SELL? ? OR SELLING OR SOLD OR ACQUIRE? OR ACQUISITION? OR COST? ?)
S9	52	S8 NOT S7
S10	0	S9 AND S6
S11	5	S9 AND (AMOUNT? ? OR QUANTITY OR QUANTITIES OR TOTAL? ? OR SUM? ? OR SUMMATION?)
S12	4	S9 AND ((RAW OR ORGANIC) () (MATERIAL? OR SUBSTANCE?) OR CHE- MICAL? ? OR COMPOUND?)
S13	14	S5 AND ((RAW OR ORGANIC) () (MATERIAL? OR SUBSTANCE?) OR CHE- MICAL? ? OR COMPOUND?)
S14	10	S13 NOT S12

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File 256:TecInfoSource 82-2004/Dec

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?t s7/5/6,8

7/5/6

DIALOG(R)File 256:TecInfoSource  
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01150215 DOCUMENT TYPE: Product

**PRODUCT NAME: WATER9 (150215)**

National Technical Information Service (NTIS) (604305)  
5285 Port Royal Rd  
Springfield, VA 22161 United States  
TELEPHONE: (703) 605-6000

RECORD TYPE: Directory

CONTACT: Sales Department

WATER9, offered by the National Technical Information Service (NTIS) and the U.S. Environmental Protection Agency (EPA), estimates the air emissions of individual **waste** elements in **wastewater** collection, storage, treatment, and **disposal** facilities. The program also features a **database** that contains organic compound information. WATER9 supports the evaluation of facilities that contain multiple **wastewater** inlet streams and collection systems. It also can be used to analyze treatment configurations. Emission estimates are based on compounds' properties and on the concentration of compounds in **wastes**. The system can reference site-specific compound property information. It estimates emissions from industrial and municipal **wastewater** collection and treatment facilities.

DESCRIPTORS: Environmental Damage; Hazardous Materials; Utility Industries  
; **Waste** Management; Water Systems

HARDWARE: IBM PC & Compatibles  
OPERATING SYSTEM: Windows; Windows NT/2000; Windows XP  
PROGRAM LANGUAGES: Not Available  
TYPE OF PRODUCT: Micro  
POTENTIAL USERS: Water Collection, Waste Disposal  
PRICE: Available upon request

DOCUMENTATION AVAILABLE: User manuals  
REVISION DATE: 20030609

7/5/8

DIALOG(R)File 256:TecInfoSource  
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01138436 DOCUMENT TYPE: Product

**PRODUCT NAME: Enterprise Reagent Manager (ERM) (138436)**

SciQuest Inc (658308)  
PO Box 12156  
Research Triangle Park, NC 27709-2156 United States  
TELEPHONE: (919) 659-2100

RECORD TYPE: Directory

CONTACT: Sales Department

SciQuest.com's Enterprise Reagent Manager (TM), or ERM, can be tapped in simplifying reagent management processes. A browser-based interface supports real-time access to technical and commercial reagent information. ERM users can access internal and supplier inventory **databases**. The shopping cart feature lets researchers requisition reagents from suppliers or in-house stockrooms. The product provides storefront access to

Sigma-Aldrich and other reagent suppliers. ERM supports order replenishment and back order tracking processes. The system can locate inventoried reagents by material, vendor, owner, status, or formula. It also includes barcode tracking features. ERM notifies health and safety professionals about reagents arriving at research sites. The system can be employed in tracking **waste disposal** costs and in forwarding **waste** pickup requests. ERM improves researcher productivity and simplifies resource allocations processes.

DESCRIPTORS: Barcoding; Client/server; Drug Discovery; Hazardous Materials  
; Inventory; Laboratories; Medical Research; Order Fulfillment;  
Pharmaceuticals; Research & Development

HARDWARE: IBM PC & Compatibles

OPERATING SYSTEM: Oracle; Windows NT/2000

PROGRAM LANGUAGES: Not Available

TYPE OF PRODUCT: Micro

POTENTIAL USERS: Drug Discovery, Pharmaceuticals

PRICE: Available upon request

REVISION DATE: 20030228

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11/5/5

DIALOG(R)File 256:TecInfoSource

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00125723

DOCUMENT TYPE: Review

PRODUCT NAMES: XML (837709); IBM CrossWorlds Connectors (006491)

TITLE: A New Approach To Integration

AUTHOR: Radding, Alan

SOURCE: Information Week; v801 p91(5) Aug 28, 2000

ISSN: 8750-6874

HOME PAGE: <http://www.informationweek.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

According to Karen Welsh, CTO for WaterDesk (the **online** exchange for the **wastewater** industry), WaterDesk wants to extend the supply chain in order to better serve customers in the new economy. Application integration is an important business function for e-commerce. WaterDesk sought out Neon Software to integrate its processes with those of customers. WaterDesk, in order to succeed, has to integrate processes with those of customers, be able to see the inner workings of the supply chain, and see the entire workflow from beginning to end. WaterDesk has to know business processes, logic, and rules, including how each customer processes **purchase** orders, shipping status, or credit. Business community integration is the goal, which requires linkages at many levels, including data, process, application logic, and business rules. However, IT is only just beginning to adopt such levels of process integration, and a recent survey finds that only 28 percent of over 300 respondents can link data and applications. Only 15 percent reported a **total** inability to link to data or applications, while others could integrate either data or applications, but not both. Among a few companies that have looked at the difficulties surrounding application integration are Healthcare, which deployed enterprise application integration (EAI) from Software Technologies; Teligent, which chose products from Active Software; idvSports, which uses Mercator and XML; and Source Alliance, which chose software from CrossWorlds Software and webMethods.

COMPANY NAME: Vendor Independent (999999); IBM CrossWorlds (640948)

SPECIAL FEATURE: Charts Tables

DESCRIPTORS: E-Commerce; Integration Software; Middleware; XML

REVISION DATE: 20020228

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12/5/1

DIALOG(R)File 256:TecInfoSource  
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01177466 DOCUMENT TYPE: Product

**PRODUCT NAME: Lookout (177466)**

National Instruments Corp (318191)  
11500 N Mopac Expswy  
Austin, TX 78759-3504 United States  
TELEPHONE: (512) 794-0100

RECORD TYPE: Directory

CONTACT: Sales Department

National Instruments' Lookout is a **Web** -based system that simplifies the development of HMI/SCADA applications. The product supports the collection of real-time information, streamlining decision-making. It employs TCP/IP **networking** technology in providing users with browser-based remote input-output (I/O) display and control features. The system also includes data access control features. Lookout can be used to control and monitor **chemical**, petrochemical, gas pipeline, **wastewater** plant, paper mill, food processing plant, and other industrial applications. It includes OPC client and server features. It also allows users to link to Microsoft (R) Visual Basic (R), Java, Borland Delphi, C, and other programming environments. Tapping the system, users can modify applications without interrupting device communications. Lookout can connect a manufacturing execution system (MES) with enterprise resource planning (ERP) applications. It retrieves real-time or historical data. The system can poll over 50,000 I/O points. It includes X-Y motion, resizing, dynamic coloring, bitmap import, and other visualization features. The system also provides distributed logging and event notification features.

DESCRIPTORS: CAE; Front Ends; Industrial Automation; Industrial Engineering; Intelligent Controllers; Manufacturing; Production Control ; Real Time Data **Acquisition** ; User Interfaces

HARDWARE: Hardware Independent; IBM PC & Compatibles  
OPERATING SYSTEM: Open Systems; Windows; Windows NT/2000; Windows XP  
PROGRAM LANGUAGES: ActiveX; C; C++; Delphi; Java; Visual Basic  
TYPE OF PRODUCT: Mainframe; Mini; Micro; Workstation  
POTENTIAL USERS: Manufacturing  
PRICE: Available upon request

REVISION DATE: 20031121

12/5/4

DIALOG(R)File 256:TecInfoSource  
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00126312 DOCUMENT TYPE: Review

**PRODUCT NAMES: Company--Verticalnet Inc (871834)**

**TITLE: VerticalNet Is Building B-to-B Communities With Functionality**  
**AUTHOR: Staff**  
**SOURCE: Upside, v124 p46(3) Aug 2000**  
**ISSN: 1052-0341**  
**HOME PAGE: <http://www.upside.com>**

RECORD TYPE: Review  
REVIEW TYPE: Company



VerticalNet, which started out in 1995 as an **online** community for the **wastewater** treatment community, evolved into a more advanced site that could obtain advertising revenues and sales leads. Based on the success of its business model, the founders, Mike McNulty and Mike Hagan, started building storefronts for manufacturers and created what current CEO Mark Walsh calls 'A better, more functional, more actionable, real-time bingo card.' VerticalNet then obtained \$1 million in venture capital and turned loose the PollutionOnline.com and SolidWaste.com sites, and a few other verticals that also target the environmental sector. Another round of VC funding allowed VerticalNet to open its **Chemical Online** and **Food Online** vertical sites and to continue its strategy of building trade magazine-type **Web sites** with a uniform metaphor. Today VerticalNet has 56 industry-specific, **online**, business-to-business (B2B) communities grouped into 143 industry sectors; 10 were **acquired**, and all the communities emphasize community over content because 'only through community will commerce occur.' The communities do not raise the blood pressure of investors, but overall, VerticalNet is gaining a reputation as an aggressive **buyer** of companies that is expanding quickly and (since 40 percent of VerticalNet's traffic is outside the U.S.) and as a global presence.

COMPANY NAME: Verticalnet Inc (669296)

DESCRIPTORS: B2B Marketplaces; E-Commerce; Utility Industries; **Waste**  
Management

REVISION DATE: 20020730

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14/5/6

DIALOG(R)File 256:TecInfoSource  
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01213991 DOCUMENT TYPE: Product

PRODUCT NAME: EnviroPro Designer (213991)

INTELLIGEN (754242)  
2326 Morse Ave  
Scotch Plains, NJ 07076 United States  
TELEPHONE: (908) 654-0088

RECORD TYPE: Directory

CONTACT: Sales Department

INTELLIGEN's EnviroPro Designer (R) is an environmental process simulator that allows users to develop, evaluate, and optimize technologies. The system includes models for over 70 operations. It provides users with equipment sizing and costing, VOC emission calculation, **chemical** component fate prediction, and **waste** stream characterization features. EnviroPro Designer includes a **chemical** component and mixture **database**, as well as equipment and resource **databases**. A straightforward interface streamlines modeling. The system can export PDFs in DXF and WMF formats. It integrates with word processing, spreadsheet, and graphic design applications. EnviroPro Designer also includes **online** help features. The system offers users reaction, pressure change, drying, phase separation, and other unit procedure models. An evaluation version of the product can be downloaded from the INTELLIGEN **Web site**.

DESCRIPTORS: CAE; Chemistry; Environmental Damage; Industrial Engineering; Manufacturing; Process Control; Simulation; **Waste** Management

HARDWARE: IBM PC & Compatibles  
OPERATING SYSTEM: Windows; Windows NT/2000; Windows XP  
PROGRAM LANGUAGES: Not Available  
TYPE OF PRODUCT: Micro  
POTENTIAL USERS: Environmental Process Simulation, Manufacturing  
PRICE: Available upon request

REVISION DATE: 20040524  
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Set	Items	Description
S1	64646	WASTE? ? OR WASTESTREAM? OR WASTEWATER
S2	5614	DB OR DBS OR OODB OR RDB OR RDBMS OR RDBS OR RD OR DATABAS- E? OR DATABANK? OR DATAMIN? OR DATA() (BASE? OR BANK? OR MINE? OR MINING)
S3	166049	WEB OR INTERNET? OR NET OR WWW OR WEBPAGE? OR WEB() PAGE? OR WEBSITE? OR WEB() SITE? OR ONLINE OR ON() LINE
S4	12650	NETWORK? OR NET() WORK? OR LAN OR WAN OR SERVER? ? INTRANET? OR EXTRANET
S5	2453	S1 AND S2:S4
S6	100535	RECYCL? OR RECOVER? OR REUSE? OR REUSING OR REUSABLE? OR - DISPOS? OR REPROCESS?
S7	1235	S5 AND S6
S8	442880	PURCHASE? OR BUY? OR SELL? ? OR SELLING OR SOLD OR ACQUIRE? OR ACQUISITION? OR TRANSACT?
S9	272	S7 AND S8
S10	794678	(RAW OR ORGANIC) () (MATERIAL? OR SUBSTANCE? OR ELEMENT?) OR CHEMICAL? ? OR COMPOUND?
S11	108	S9 AND S10
S12	108	RD (unique items)
S13	83	S12 AND S1(5N)S6
S14	56	S13 NOT PY>2000
S15	12	(WASTE() STREAM? OR WASTESTREAM? OR WASTE() WATER OR WASTEWA- TER) AND S3/DE, TI

?show files

File 19:Chem.Industry Notes 1974-2005/ISS 200504

(c) 2005 Amer.Chem.Soc.

File 319:Chem Bus NewsBase 1984-2005/Jan 31

(c) 2005 Elsevier Eng. Info. Inc.

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Set	Items	Description
S1	31	AU='SZMANDA C R':AU='SZMANDA CHARLES R'
S2	46	AU='TREFONAS III PETER':AU='TREFONAS PETER III'
S3	1	AU='HEMOND R C'
S4	0	AU='THIRSK M'
S5	13	AU='LINEHAN L L':AU='LINEHAN LEO L'
S6	61	AU='ZAMPINI A':AU='ZAMPINI D'
S7	131	S1:S6
S8	0	S7 AND WASTE?
S9	0	S7 AND (RECYCL? OR REPROCESS?)
S10	0	S7 AND RAW()MATERIAL?

?show files

File 347:JAPIO Nov 1976-2004/Aug(Updated 041203)

(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200507

(c) 2005 Thomson Derwent

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*Inventor  
Search*

?ds.

Set	Items	Description
S1	39	AU='SZMANDA, C.':AU='SZMANDA, CHARLES RAYMOND'
S2	34	AU='TREFONAS, P.':AU='TREFONAS, PETER, III'
S3	2	AU='HEMOND, R.':AU='HEMOND, RICHARD CONRAD'
S4	7	AU='THIRSK, M.'
S5	15	AU='LINEHAN, L.':AU='LINEHAN, L.L.'
S6	29	AU='ZAMPINI, A.':AU='ZAMPINI, ANTHONY'
S7	111	S1:S6
S8	0	S7 AND WASTE?
S9	0	S7 AND RAW() MATERIAL?
S10	0	S7 AND (RECYCL? OR REPROCESS?)

?show files

File 35:Dissertation Abs Online 1861-2004/Dec  
(c) 2004 ProQuest Info&Learning

File 65:Inside Conferences 1993-2005/Jan W4  
(c) 2005 BLDSC all rts. reserv.

File 148:Gale Group Trade & Industry DB 1976-2005/Jan 28  
(c) 2005 The Gale Group

File 2:INSPEC 1969-2005/Jan W4  
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File 16:Gale Group PROMT(R) 1990-2005/Jan 31  
(c) 2005 The Gale Group

File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group

File 636:Gale Group Newsletter DB(TM) 1987-2005/Jan 31  
(c) 2005 The Gale Group

File 624:McGraw-Hill Publications 1985-2005/Jan 28  
(c) 2005 McGraw-Hill Co. Inc

File 275:Gale Group Computer DB(TM) 1983-2005/Jan 31  
(c) 2005 The Gale Group

File 647:CMP Computer Fulltext 1988-2005/Jan W2  
(c) 2005 CMP Media, LLC

File 674:Computer News Fulltext 1989-2005/Jan W3  
(c) 2005 IDG Communications

File 9:Business & Industry(R) Jul/1994-2005/Jan 28  
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Set	Items	Description
S1	688545	WASTE? ? OR WASTESTREAM? OR WASTEWATER
S2	7554896	WEB OR INTERNET? OR WEBPAGE? OR WEB()PAGE? OR WEBSITE? OR WEB()SITE? OR ONLINE OR ON()LINE
S3	5945443	NETWORK? OR NET()WORK? OR LAN OR WAN OR SERVER? ? OR INTR- ANET? OR EXTRANET
S4	1966536	RECYCL? OR RECOVER? OR REUSE? OR REUSING OR REUSABLE? OR - RE()(USE? ? OR USING OR USABLE?) OR DISPOS? OR REPROCESS? OR RE()PROCESS? OR SALVAG?
S5	11440985	PURCHASE? OR BUY? OR SELL? ? OR SELLING OR SOLD OR ACQUIR? OR ACQUISITION? OR TRANSACT?
S6	37093	S1(S) (S2:S3)
S7	6624	S6 AND S1(5N)S4
S8	2428748	(RAW OR ORGANIC)() (MATERIAL? OR SUBSTANCE? OR ELEMENT?) OR CHEMICAL? ? OR COMPOUND?
S9	931	(S1 OR S8) (5N)S5 AND S7
S10	111665	(S1 OR S8) (5N)S5
S11	506	S10(S)S7
S12	72	S11 (S) (B2B OR B2C OR P2P OR BUSINESS(2W) (BUSINESS OR CLI- ENT? OR CONSUMER?) OR PEER(2W)PEER OR ECOMMERCE OR E()COMMERC- E)
S13	47	RD (unique items)
S14	41	S13 NOT PY>2000
S15	24	S11 AND S1(5N)EXCHANG?
S16	13	RD (unique items)
S17	12	S16 NOT S14
S18	10	S17 NOT PY>2000

?show files

File 275:Gale Group Computer DB(TM) 1983-2005/Feb 01  
(c) 2005 The Gale Group

File 621:Gale Group New Prod.Annou.(R) 1985-2005/Feb 01  
(c) 2005 The Gale Group

File 636:Gale Group Newsletter DB(TM) 1987-2005/Feb 01  
(c) 2005 The Gale Group

File 16:Gale Group PROMT(R) 1990-2005/Feb 01  
(c) 2005 The Gale Group

File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group

File 148:Gale Group Trade & Industry DB 1976-2005/Jan 31  
(c)2005 The Gale Group

File 553:Wilson Bus. Abs. FullText 1982-2004/Sep  
(c) 2004 The HW Wilson Co

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14/9/9 (Item 8 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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01389806 Supplier Number: 46441463 (THIS IS THE FULLTEXT)

**TSD Central providing free Internet service to generators.**

Business Wire, p06041200

June 4, 1996

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 263

TEXT:

GOLDEN, Colo.--(BUSINESS WIRE)--June 4, 1996--In a major promotion designed to kickstart its introduction, TSD Central, the developers of a centralized collection of industrial waste service business sites on the Internet, announced the availability of its service on a no-cost basis to hazardous waste generators.

Making the announcement was Eliot Cooper, president of TSDX Corp.

"TSD Central continues to prove itself successful with owners of industrial waste disposal sites and services," said Cooper. "With over 200,000 generators, we're offering this valuable service at no charge to provide the impetus to get the word around," he added, noting the company is basically using the same model that has made other online services, such as America Online and Netscape, successful.

Perma-Fix Environmental Services Inc., an operator of five industrial waste treatment facilities, is one of many companies using the Internet service provided by TSD Central to market companies seeking industrial waste management services. "With the new market reach service provided by TSD Central we are able to deliver competitive quotations and information to industrial waste generators in a faster and more cost-effective mode than traditional methods," said Lou Centafonti, president of Perma-Fix.

TSD Central is a collective marketing and promotion firm providing a highly interactive marketplace where **buyers** and sellers of industrial **waste** services communicate and **transact business**. It handles all of the technical and financial complexities of maintaining the high speed reliability users seek on the **Internet**.

TSD Central can be located on the Internet's World Wide Web at <http://www.tsdccentral.com>.

CONTACT: TSDX, Golden

Eliot Cooper or Mark NiCastro, 303/202-6620

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PUBLISHER NAME: Business Wire

COMPANY NAMES: \*TSD Central

EVENT NAMES: \*240 (Marketing procedures)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*4953010 (Industrial Solid Waste)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

NAICS CODES: 562111 (Solid Waste Collection)

14/9/24 (Item 1 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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07821201 Supplier Number: 65305428 (THIS IS THE FULLTEXT)

**Waste Web.**

Fickes, Michael

Waste Age, v31, n8, pSS6

August, 2000

ISSN: 0043-1001

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 4722

TEXT:

A host of online services have sprung up to serve the needs of garbage haulers and recyclers.

The trash mice are here. At WasteExpo 2000, a host of online businesses announced their presence in the solid waste industry offering waste haulers, disposers, recyclers and waste generators a variety of business-to-business (B2B) services. B2B is an e-business term for on-line companies that serve businesses -- not consumers -- in one way or another.

For example, a hauler can log onto a number of online B2B services and search for commercial customers, municipal contracts, used and new equipment, and even headlines of key developments in the waste industry. Waste generators can log onto the same sites and post their needs, simply or in a formal request for proposals (REP). And recyclers and landfill operators can search services with areas devoted to equipment such as compactors.

While the services these new dot-coin companies vary many are developing software that solid waste organizations can use to improve management techniques. One company, for instance, plans to offer route optimization tools that can be used online. That means instead of buying and using expensive software, you simply subscribe to a service and use the software application that is up, running and waiting for you.

Of course, to get information, you have to give information. Recognizing users will want to ensure the confidentiality of their reporting, B2B providers are spending significant amounts of time to guarantee customer security. However, that doesn't mean all online B2B services are foolproof. You should investigate all claims carefully, researching security issues beyond what any particular provider tells you.

Despite the benefits online B2B services can provide, taking advantage of the services will require that you spend time clicking around from site to site so that you understand how each applies to your operations. You will have to force yourself to think in new and different ways about what you do and how these online services might contribute. You also will have to be patient -- many sites have yet to implement all of their ideas, so they may have glitches.

But ultimately, if you watch for progress, you will discover opportunities. The new online companies are designed to increase your revenues with new sources of business, as well as to help reduce operating costs with more efficient supply and management techniques.

Here's a look at what 10 companies have to offer in the solid waste management B2B online arena.

Analine.com

Boston

www.analine.com ne.com

Analine.com operates a reverse auction for haulers and waste generators, and provides a number of application service provider (ASP) (See "Defining Web Words" on page SS11) tools to help its users conduct business.

John McQuillan, president and CEO of Analinecom, describes the company as a commerce tool for the waste industry, the hazardous waste industry, the consulting engineering industry and environmental industries as a whole.

"According to the U.S. Department of Commerce, the environmental industry is a \$200 billion market splintered into a number of spaces," McQuillan says. "The largest of these operate in the solid waste industry. We've built out products for the solid waste industry and a number of other categories."

"Our primary focus right now is on the very large purchasers of environmental products, services and technologies," he continues. "Our exchange is just the first of a number of planned applications or Internet-based tools that will help make a buyer's life easier. In short, this is an operating system that includes all the time and money saving applications that a buyer and a seller will ever need. It includes tools for enterprise resource planning (ERP) and customer relationship management (CRM) all together in one area."

The Analine.com exchange model offers a reverse auction service that, according to McQuillan, takes advantage of the Internet's ability to "put power into the hands of buyers and enables them to apply the strengths of free market economics to individual transactions."

In a reverse auction, a buyer posts a RFP, and sellers post bids



designed to meet the REP's requirements. Unlike a regular auction, bidders are suppliers, not buyers. In contrast to a regular auction, prices ordinarily fall during bidding instead of rising. At the end, lower bids are more likely to come out on top.

Analine.com's auction area offers two kinds of reverse auctions for buyers, who can choose the one most suited to their needs. First, buyers can request value bids in which price represents only one selection criteria. The buyer sees all of the bids posted in response to the RFP, as well as basic company information included by the seller in the proposal. Second, buyers can request a low-bid auction in which price is the only consideration. Buyers will see only the lowest bid and have no opportunity to select a higher bid.

Bidders can view the amounts bid by other sellers and may lower, but not raise, their bids until the auction closes. Sellers submitting bids must accept an agreement that underscores the legal impact of the offer. Buyers selecting a response to their RFPs enter into a binding agreement to pay the bid amount.

Analine.com generates revenues by charging fees to bidders on contracts worth more than \$1,000. Additionally, Analine.com charges one-half of one percent (0.05 percent) of the total amount of the winning bid. Charges are billed to credit cards.

eWaste

Atlanta

Due on-line this summer, eWaste plans a three-phase introduction of its services to the waste management industry, according to company president Vince Bankoski.

[www.ewaste.com](http://www.ewaste.com)

Phase I will introduce a portal concept aimed at creating a community of users. "We're currently working with content partners to provide news and information important to waste management professionals," Bankoski says. "Our partners in this effort include magazine publishers, research services, government agencies and people with information resources in the real world."

Plans call for the portal to generate revenues through sales of banner advertising and marked-up fees charged by information providers.

"The goal of the portal is to build our brand name," Bankoski says.

Then, Phase II will launch in the fall of 2000. This phase will introduce an auction model designed to facilitate transactions between waste generators and service-providers. Fees have not been established, but Bankoski notes that auction services generally charge fees ranging from 1 percent to 10 percent of the transaction's value.

Bankoski holds high expectations for the auction software eWaste is creating. "It's a killer application," he says. "It's a dynamic auction instead of a static one. The price moves in an automated fashion, and the buyer and seller are empowered to close at any time. In other words, you no longer have to be the low bidder. In a conventional auction, you submit your bid and cross your fingers. In a dynamic auction, the prices change in front of your eyes, and when two parties are satisfied, they close. This is a new idea."

Bankoski expects the model to attract copycats but is banking on the brand-building efforts of Phase I to position eWaste as the identifiable service.

Phase III, scheduled to arrive on the eWaste site early in 2001, will provide what Bankoski calls back-end integration. "In this area of our service, partners called application service-providers will supply tools to help our users manage their businesses online," he says. "What this means is that you may not have to hire an Internet guru. You can come here for the tools you will need to manage relationships with customers and suppliers. You won't have to buy 50 software packages, integrate them into your business and train your employees. You simply subscribe to a service that understands your business. You can customize these tools to fit your look and needs. This makes everything more affordable and easier," he claims.

Fibermarket.com

Atlanta

Fibermarket.com has created a market-maker exchange on the Internet to facilitate business relationships between buyers, sellers, brokers, dealers and intermediaries interested in fiber products.

www.fibermarket.com

"We think of our model as a fiber management marketplace," says Jeff Abbott, vice president, corporate strategy for the company. "In essence, we provide the digital tools to simplify the buying and selling of recycled fiber materials for paper mills, forest product companies, recovered fiber producers and aggregators."

Sellers include large national and small local recycling collectors, and plant operators. Buyers range from fully integrated paper companies to small independent mills.

Interested businesses may log onto the site at no charge. Users, however, must complete a profile that qualifies them as a buyer, seller or intermediary. Based on the profile, the site provides different functionalities, with screens and tools tailored to business needs.

Fibermarket.com generates revenues from fees related to transactions between buyers and sellers, as well as through value-added services, which are being added to the site and will carry what Abbott describes as a nominal fee based on the value it contributes to the transaction. For example, value-added services include transportation of the purchased materials.

Another value-added service covers transaction financing. The company plans to offer a settlement feature that will enable qualified buyers and sellers to transfer funds electronically.

More advanced services planned for the site include developing an Oracle Corp. global exchange platform. "This is an important development for us," Abbott says. "It will let us leverage Oracle's supply chain collaboration technology to enable a buyer or seller to connect their suppliers and vendors to the marketplace. For example, if I were managing a paper company and wanted to line up my manufacturing runs for the next month, I would have to evaluate the raw material inventory on one side, while simultaneously looking downstream at demand from my sales channels. With this information, I could project my production runs."

"In a traditional environment this would involve a lot of manual work. But in a collaborative online supply-chain environment with suppliers, vendors, channel partners and customers all connected, it becomes more efficient," he says.

Fibermarket.com went on-line in October 1999 financed by venture capital from investors such as Neocarta, Charthouse Group and J.P. Morgan. The company recently engaged Oracle Corp. as a technology partner and significant investor.

PaperExchange.com

Boston/London

www.paperexchange.com

PaperExchange.com offers solid waste haulers and recyclers an online market, or exchange, for a variety of recycled paper products. The company deals with all product segments of the paper industry: container board and packaging, newsprint, printing and writing paper, publishing, pulp, towel and tissue, and recovered paper.

Sellers as well as buyers may log onto the site free of charge. Sellers may post their paper offerings, and buyers may search the site by product, grade or another specific feature that they're looking for. PaperExchange provides the conduit for buyers and sellers to negotiate their own deals, and PaperExchange takes a 3 percent commission on the total national value of completed sales. The seller pays the commission.

A recent upgrade to the site offers a service called Target RFQ or Request For Quote. With this new function, buyers can submit an REQ to the service, which then will distribute it to preferred suppliers. Sellers may choose to bid on the entire RFQ or on separate items.

Additional services include credit approval, payment processing, and logistics for both buyers and sellers.

"We provide solid waste sellers the ability to play on a bigger field," says Kevin Preblud, executive director, recovered paper for PaperExchange. "We qualify buyers with a line of credit and we clear the transactions. That means the seller sells to PaperExchange and need not conduct a credit check."

How does the product move from seller to buyer? "Logistics is another component of what we offer," Preblud adds. "Suppose a seller offers product Freight On Board (FOB) delivered. In that case, the seller pays the freight charges. A seller might offer FOB origin, which means the buyer

must pick it up at the sellers door and handle the shipping."

In either case, PaperExchange will arrange for shipping if the buyer or seller requests it.

As an incentive for buyers and sellers to visit the site, PaperExchange also offer content including job listings, schedules of industry events, news headlines and a resource directory.

A number of the company's key executives have several years of experience in the paper industry. For example, President and CEO Kent Dolby comes from Andersen Consulting, where he served as global managing partner of the company's global natural resources practice, which included forest products.

PaperExchange went online two years ago in 1998. Investors include The Kraft Group, Internet Capital Group, Madison Dearborn Partners, MSD Capital L.P, Staples, International Paper, Asia Pulp & Paper, Terrapin Partners LLC, David Wetherell and Roger Stone.

The company recently filed its intention to make an initial public offering and go public.

RecycleNet Corp.

Guelph, Ontario, Canada

[www.recycle.net](http://www.recycle.net)

Founded in 1995, much earlier than most emerging waste dotcoms, RecycleNet Corp. operates an information and trading exchange for buyers and sellers of all kinds of recycled materials. "We operate a free and open trading exchange," says John Robb, sales manager for RecycleNet. "We put buyers and sellers together, but we do not stand in the middle of the transaction. A selling company might post a listing to sell so many pounds of scrap plastic on our site. The offer might be for a one-time deal or an ongoing series of transactions. A buyer using our site will see the listing and contact the company. The two parties negotiate the transaction between themselves."

Because RecycleNet does not get involved in the transaction, the site differs significantly from auction, brokerage or other sites that act as intermediaries.

The company generates revenues by selling advertising, value-added services and tools designed to make the system work more efficiently.

Robb declines to describe the value-added services or software tools in detail, saying only that the chief value-added service is a lead referral system. Software tools enable users to enhance their offerings with photographs, he says.

The key to the site, according to Robb, is the idea of creating a marketplace on the web for recyclers.

"Where do recyclers go?" he asks. "A recycling center negotiates a transaction with a seller, but how does the seller know what the prices are? Prices for recycling materials bounce around because the system is transaction-based. As a free trading system, we provide an overview of the marketplace. That's the benefit we offer."

Robb also emphasizes the need for easy use. "I see a lot of new websites with cool technology," he says. "But our users may not be able to use those sites. In many instances, there is a gap between the business concept and the technology. To be successful, you have to close that gap, making sure that what you are doing is about the business and not the technology. Recyclers, after all, don't love technology. They want to move cardboard."

WasteBid.com Inc. Fairfax, Va. [www.wastebid.com](http://www.wastebid.com)

WasteBid.com comes to the Internet market as the brainchild of Gershman, Brickner and Bratton Inc., a Fairfax, Va.-based solid waste management firm. The **business** -to- **business** company aims to become an intermediary between **buyers** and sellers of solid **waste** services and new and used equipment. Site users include traditional **waste** hauling companies, **recycling** plants, **disposal** operations, equipment sellers and **waste** generators.

"Our site will stress **recycling** and will devote areas to recycled-content materials," says Robert Brickner, chief marketing officer for the company. "Most of us got into the **business** in the 1970s based on personal commitments to waste reduction and recycling. From that point of view, we want to give equal time to recycling."

When joining service-providers and waste generators together, Brickner emphasizes that his site does not function as a reverse auction or

as a waste broker.

"Our site aims to mirror the way the industry works," he says. "Service-providers register with us to offer their services. Waste generators sign up by filling in forms describing their service requirements. Then, WasteBid.com solicits bids from the registered service-providers. Whoever makes the lowest responsive bid gets the contract.

Brickner notes that the general advantages of making deals online include speed for both buyer and seller, and the elimination of sales calls for the buyer.

WasteBid.com earns money on commissions when transactions are completed on the site. Who pays the fees depends on the transaction, according to Brickner.

While Gershman, Brickner and Bratton Inc. formed WasteBid.com, Brickner says that the relationship between the two companies formally remains at arms length.

wasteclick.com

Orange, Calif.

Wasteclick.com is a vertical industry portal, or vortal, designed to provide information, products and services to the waste management industry.

www.wasteclick.com

The site, which began in spring 2000 as an extension of Trans-Comp Systems Inc., offers waste industry news, research, discussions, newsletters, online tools, searchable job listings, career aids, a number of other informational sources and electronic commerce services.

Discussion forums and e-mail will allow members to ask for information and choose products and services from the site's electronic commerce offerings, according to the company.

Wasteclick.com also hosts a number of electronic commerce businesses. Sellers operating storefronts on the site offer products such as containers, vehicles, equipment, components and supplies.

Buyers or shoppers can compare specifications and prices, place orders, make payments or establish credit, and then arrange to have the product drop-shipped.

Additionally, the site conducts auctions and reverse auctions for used and surplus equipment, commodities and recyclables.

Membership and use of the information on the site is free. The company generates revenue by charging fees to create storefronts and Internet marketing strategies for waste industry businesses.

"We're a consultant," says Patrick Sweeney, the company's general manager. "We'll show companies how to use the tools at our site to implement an Internet strategy. If you manufacture compactors, for example, you may want to market that product on the net. You can pay to do this internally or you can contract with us to create a storefront on our site."

According to wasteclick.com literature, the company also plans to offer operations management solutions to waste management organizations. With this set of tools, companies reportedly can handle tasks such as accounting, route optimization and scale-house management online, without purchasing and maintaining those software systems in-house.

TransComp Systems Inc. is a software developer and provider of professional services specializing in financial and operations management applications for the waste and recycling industries.

wastedepot.com

Columbus, Ohio

Wastedepot.com went online in April of this year as a business-to-business exchange. Founded by the Columbus, Ohio, -based The Ecology Group, wastedepot.com offers a reverse auction format focused on matching local haulers with local commercial waste generators.

www.wastedepot.com

Wastedepot.com buyers and sellers may be part of large national companies or small independent haulers or businesses. Nevertheless, the company has developed its electronic commerce model around the oft-repeated observation that the garbage business, like politics, is local.

"We're nuts and bolts guys," says Nick Nicholson, president and CEO. "We help the pizza joint with a dumpster and the grocery store with a roll-off find a company to haul their trash. Of course, the pizza restaurant might be part of a national chain, and the hauler might be a local division of a national company

Nicholson believes Wastedepot.com's results during its first quarter of operation point to the appeal of the company's business model.

"I would estimate that our service facilitated about 500 deals so far," he says. "Right now, we have about 53,000 locations that will go up for bid over the second half of 2000. These are buyers that have registered for our auction."

If Wastedepot.com continues to attract buyers at its current rate, Nicholson speculates that the company will eventually bid out 20,000 locations per month, worldwide.

To those who think that sounds wildly optimistic, Nicholson notes that it is only 10 percent of the worldwide market.

Wastedepot.com generates revenues by charging haulers a commission for contracts won in the bidding process. Haulers also pay a monthly fee of \$39.95.

"After discussing our service with a small, local hauler, that company decided to postpone hiring a sales person," Nicholson says. "Using our service, they won \$18,000 of business in 18 minutes online and decided that our commissions were cheaper than a salesperson."

Another intended benefit of the localized Waste depot.com strategy is that it aims to attract large waste generators with numerous locations.

"Suppose a very large client with many locations across the United States and Canada came to us," Nicholson says. "Our software offers a way to put up their bid locations in a batch, all at once. They transmit the data to us, and we put it up on the service. The same principle works for a small restaurant chain with five or six locations."

However, the chief benefit of the concept, as with all Internet services, appears to be speed.

"We're facilitating business transactions that might take a month to complete over the telephone and through the mail," Nicholson says. "With our service, it normally takes a week."

Looking forward, Wastedepot.com's top management plans to develop its site by adding an exchange for waste haulers offering both new and used equipment in the third quarter of this year.

Farther down the line, the company plans of other services from facilitating bill paying to cost management.

The Ecology Group is a management company. (See a related story on The Ecology Group, "Consolidations of Another Kind," beginning on page 54 in this issue.)

WoodFuel.com

Houston

www.woodfuel.com

WoodFuel.com buys and sells wood fuel online. The company also forms alliances with equipment, transportation and financing companies to enhance its services to buyers and sellers.

"We are not an exchange that simply puts buyers and sellers in contact with each other," says Scott Mactier, a partner with WoodFuel.com. We actually purchase the woodfuel material and resell that material to our customer base."

In time, Mactier expects "to be the largest gatherer of woodfuel material in the world." He adds: Providing a centralized source of information also will be an important aspect that our site provides to the industry."

Currently, the company targets woodfuel suppliers such as grinding operators, mills, municipalities, wood waste generators, public utilities, power line trimmers, landscapers, pallet distributors and solid waste collectors.

"For example, we have a contract with Novus Wood Group in Houston, one of the largest gatherers of wood material in Texas," Mactier says. "The company gathers about 500,000 tons per year, and the contract commits a large portion of the product to us."

Buyers include energy and utility companies, paper mills and saw mills. Donohue Industries Inc., Sheldon, Texas, for example, operates a newsprint and market pulp plant that has contracted to purchase approximately 250 tons of woodfuel per day from Wood Fuel.com. Donohue uses the wood as an alternative to natural gas to fire its boilers.

Mactier believes that the Wood Fuel.com premise will work by consolidating sellers.

"Buyers are usually large companies with large bulk needs. Suppliers

are many and fragmented," he says. "What makes our idea work is consolidating a source of supply for buyers. We also help to enhance the quality of the product. For example, we will meet with suppliers, analyze their operation and provide advice about how to enhance their procedures to raise the quality and value of their product."

The site also offers links to equipment manufacturers that may be important to suppliers.

As of mid-June, the WoodFuel.com website offered little in the way of information resources, but Mactier says he plans to begin centralizing a database of articles about the industry for future access.

Online since April 2000, Wood Fuel.com received its initial capital from eight private investors who have taken an active role in the business.

Wwwaste.com, Inc.

Miami

www.wwwaste.com

Wwwaste.com Inc. came online in February of this year. Developed by several executives of the Miami, Fla.-based Star Service Group and Delta Recycling, a solid waste company and a recycling company, this web-site is betting that its take on the world of electronic commerce will appeal to other solid waste haulers and recyclers.

Despite these key relationships, Wwwaste.com stands on its own as a separate company not related to Star or Delta, according to Jack Casagrande, the company's founder and vice president of the recently introduced service.

In its first few months, the wwwaste.com site primarily served as a source of information about the waste industry. It provided news, feature articles, live stock market quotes for waste companies, a chat room and bulletin boards for job listings and equipment sales.

"Another area we're currently developing will post full listings of bid opportunities as they arise for municipal, state and federal contracts," Casagrande says of the website's progress. "Our goal is for a hauler to key in a service area, say two or three county names, and be able to review bidding opportunities and get all the information necessary to develop an RFP."

Plans also call for providing hauler listings that waste generators can search.

Casagrande describes the overall business concept as a directory or information site. Revenues will come in the form of advertising or user fees yet to be firmly established. For example, "a local hauler might pay \$100 per year to be a member," Casagrande says.

"The membership fee entitles the hauler to full access to the site and an advertisement. But anyone can come to the site and purchase services. It will cost about \$10 to post a contract listing and \$10 to view a listing," he adds.

As of the time of publication, access to the site remained free for both buyers and sellers, because Wwwaste was focused on building an identity for the service.

Michael Fickes is Waste Age's business editor

Defining Web Words

ASP: An application service provider or ASP pools together a number of electronic tools to create an operational platform for interested users. Amercia Online, for example, is an ASP that provides a variety of tools, from Internet browsers to financial market tracking, for its members.

Auction: A transaction process in which sellers solicit bids from buyers, with a product or service going to the highest bidder. See Reverse Auction.

B2B: An online operation providing services that link two or more businesses.

B2C: An online concept in which a business sells products and services to consumers.

Exchange: An online service that creates a forum for exchanging information, products and services for which fees may or may not be charged. There are two primary categories of exchanges: information and market. An information exchange facilitates the free exchange of information among users and generates income from the sale of services to companies with storefronts or advertising on the site. A marketmaker exchange provides an electronic forum for doing business. A key element of a market-maker is that the exchange never takes title to a product. The

exchange occurs solely between the buyer and seller, with the market-maker possibly earning a commission.

Intermediary: A company that brings buyers and sellers together, charging fees to both sides. The concept distinguishes an intermediary from a broker, whose fee structure may imply loyalty to one or another party to a transaction. Depending on the fee structure, an intermediary and market-maker may perform similar services.

Portal: An Internet site providing news, research, statistical summaries, discussions, newsletters, online tools, online stores and a variety of other information and media for exchanging information for visitors. A portal may offer its services free to users and generate income from advertising and commissions charged to companies set up to offer products or services to customers for fees.

Reverse Auction: In a reverse auction, a buyer posts a request for proposals (RFP) for products or services, and sellers post bids to indicate what they would charge to provide those products or services. In a reverse auction, the bidders are the suppliers of the products or services, not the buyers. Another difference between a reverse and regular auction is that prices generally fall, instead of rise, as the auction proceeds. Therefore, lower bids are more likely to win in a reverse auction.

Vortal: A vertical-industry portal that provides information and resources over the Internet for a specific industry.

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INDUSTRY NAMES: BUSN (Any type of business); ENV (Environment)

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?t s18/3,k/1,4,6,7,8,9,10

18/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01514760 SUPPLIER NUMBER: 12166862 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Online directory: Cincinnati Bell Directory intros online service to help  
businesses reduce waste & meet environmental mandates. (Team-W - The  
Electronic Answer for Managing Waste data base) (Product Announcement)  
EDGE, on & about AT&T, v7, n198, p6(1)  
May 11, 1992  
DOCUMENT TYPE: Product Announcement LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
WORD COUNT: 502 LINE COUNT: 00042

... called TEAM-W: The Electronic Answer for Managing Waste, is an  
electronic marketplace for the **exchange** of re-usable and recyclable  
**waste** materials that would typically end up in landfills. CBD debuted  
TEAM-W at the Environmental...

...newsletters, federal, state and local contacts  
o MATERIAL RE-USE OPPORTUNITIES how to buy or **sell** materials using  
TEAM-W; regional **waste exchanges**; regional **recycled** materials price  
sheet; list of materials available and wanted  
o RECYCLING & COMPOSTING GUIDELINES why and...

18/3,K/4 (Item 2 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2005 The Gale Group. All rts. reserv.

03304219 Supplier Number: 46785421 (USE FORMAT 7 FOR FULLTEXT)  
**FIRST WASTE EXCHANGE ON THE INTERNET.**  
Europe Environment, n485, pN/A  
Oct 8, 1996  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 82

(USE FORMAT 7 FOR FULLTEXT)  
**FIRST WASTE EXCHANGE ON THE INTERNET.**  
TEXT:  
...telecommunications group Siemens issued a statement on October 2  
announcing the launch of the first **waste exchange** on the **Internet** on  
October 7. Devised by Siemens subsidiary WARIS ( **Waste And Recycling**  
Information Services), and the environmental protection advisors GWU, the  
service is designed to "forge contacts between producers and **purchasers**  
of **waste** and residues". In addition to a **waste** and chemicals **exchange**  
, the service will also provide information on prices, trends and the  
legislation of **waste** markets.

18/3,K/6 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

02813764 Supplier Number: 43780852 (USE FORMAT 7 FOR FULLTEXT)  
**CEC tries new role as manager of waste trades**  
Crain's Cleveland Business, p20  
April 19, 1993  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Tabloid; Trade  
Word Count: 443

... It was fortuitous that we bumped into a service like this.'  
Mr. Puskar said the **network** has identified a potential **buyer** for  
Wiley's **wastes**, but an arrangement hasn't been completed yet.



There are around 20 similar services throughout the country, one of which, Syracuse, N.Y.-based **Northeast Industrial Waste Exchange Inc.**, operates in the Cleveland area. But no others are based here, Mr. Puskar said...

...costs would make it difficult to make transactions.'

Carrie Mauhs-Pugh, president of **Northeast Industrial Waste Exchange**, a non-profit **waste exchange** that operates in the entire northeast quadrant of the country, said WasteNet's territory may be too small to work well.

'We heard about a **waste exchange** someone tried to start in Maryland, but it didn't work because it covered too...

18/3,K/7 (Item 1 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
(c) 1999 The Gale Group. All rts. reserv.

02060384

**Computers help wastes pros communicate and research**  
Management of World Wastes November, 1988 p. 36-38  
ISSN: 0161-035X

**Waste** managers are using personal computers to access **waste**-related information from a variety of databases, according to M Michaels, president, People Technologies. PCs linked to information services via modems are used by **waste** managers to research products, find landfills and **sell recycled waste**, among other tasks. One information service available to **waste** managers is **RecycleNet**, developed for the Assn of New Jersey Recyclers by F McCamic. RecycleNet offers bulletin board and electronic mail services that let members of the **waste** management industry communicate, trade information, and share solutions for **waste** management problems. The Natl **Waste Exchange** Database is another **online** service for exchanging information. This service, offered by the **Northeast Industrial Waste Exchange**, lets users obtain **buying** and **selling** information on acids, solvents, inorganic **chemicals**, textiles, wood and metals. One valuable database for researchers is the DIALOG information service, which...

18/3,K/8 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

11763415 SUPPLIER NUMBER: 57472191 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**On-line recycling: waste /material exchange in the Electronic Information Age.**

Dioun, Mina M.

Texas Business Review, 1(2)

April, 1998

ISSN: 0040-4209

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1011

LINE COUNT: 00089

**On-line recycling: waste /material exchange in the Electronic Information Age.**

...ABSTRACT: and managing waste products has prompted business owners and manufacturers to consider the use of **Waste /Material Exchanges** (WEX) services. WEXes are actually partnerships forged between business enterprises and public entities that aim...

TEXT:

...disposal costs, and reduction of landfill space has prompted many manufacturers and businesses to consider **recycling** or **selling** their **wastes** and to use **recycled** materials in their processes or activities. A major concern is finding buyers and sellers for...

Enter **Waste /Material Exchanges**. Clearinghouses of information about "needed" and "available" materials, WEXes are partnerships between

business and government...

...board system, and 35 percent incorporate a variety of other methods.

Since 1988, the Resource **Exchange** Network for Eliminating **Waste** (RENEW) of Texas Natural Resources Conservation Commission (TNRCC) has performed **waste exchange** activities and promoted recycling and reuse. The quarterly RENEW catalog, distributed to 5,800 subscribers...

...their offerings on the Web within minutes. With more funding, WEXes can better publicize their **waste exchange** services and extend their outreach activities. Expanded and more efficient WEXes will, in turn, encourage...

...reuse, thereby benefitting the economy and the environment.

#### References

Mina M. Dioun and Julia Apodaca, " **Waste Exchanges** : Marketplace for the Cotton Industry's Recyclable Materials," Proceedings of the 1998 Beltwide Cotton Conference...

...Symposium on Electronics and the Environment.

U.S. Environmental Protection Agency (EPA), Review of Industrial **Waste Exchanges** , 1994.

18/3,K/9 (Item 2 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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07488008 SUPPLIER NUMBER: 15635279 (USE FORMAT 7 OR 9 FOR FULL TEXT)

One person's waste . (managing waste through a waste exchange program) (Environmentally Speaking) (Column)

Bailey, Jane

Industrial Paint & Powder, v70, n7, p60(1)

July, 1994

DOCUMENT TYPE: Column LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 495 LINE COUNT: 00040

One person's waste . (managing waste through a waste exchange program) (Environmentally Speaking) (Column)

... waste.

Operating under the philosophy that "one person's waste is another person's treasure," **waste exchange** organizations are gaining in popularity across the country. These groups are helping industry find alternative uses for **waste** materials.

The **waste exchanges** act as information clearing-houses, directories, and marketing facilitators for industry's reusable materials. They promote the **exchange** of **waste** by-products, surplus, off-spec, overstock, or damaged materials that no longer meet manufacturing needs.

Hazardous and nonhazardous, as well as unwanted materials, are included in the **waste exchange** inventories. Solvents, strippers, paints, and primers are just a few of the materials available. Sometimes...

...treatment or disposal expense. There is no charge for these services." She explains that other **waste exchange** groups operate similarly. Listings are also marketed through the National Materials Exchange Network, an on...

...profit exchanges charge for some services.

Companies that generate wastes should consider participating in a **waste exchange** program. Obviously, not all **wastes** can be reused. But if wastes are marketable, waste generators can greatly benefit in several ...

...storage costs, reduced disposal fees, reduced liability and transportation costs, reduced reporting and manifesting, and **raw - material acquisition** at lower prices. Participation also helps the environment by saving on landfill space. Participating companies...

18/3,K/10 (Item 3 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

04887594 SUPPLIER NUMBER: 09215538 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
EPA's database emphasizes recycling. (Environmental Services) (CPI Data & Trends)  
CPI Purchasing, v8, n12, p89(1)  
Nov, 1990  
ISSN: 0746-9012 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 732 LINE COUNT: 00059

As **buyers** seek ways to reduce **waste disposal** costs, the Environmental Protection Agency's (EPA) proposed nationwide **waste exchange** database is one alternative worth investigating.

"The **waste exchange** can be an environmentally sound recycling technique," says Myles Morse, director of the EPA's...

...How it works

In the U.S. and Canada there are about 20 non-profit **waste exchange** businesses in operation. Two years ago, members of these companies approached the EPA about how...

...we were implementing our pollution prevention initiative, and as part of that initiative we supported **waste exchange**," says Morse.

To be known as the Network of North American **Waste Exchange** Listings, companies would have to go through **waste exchange** firms to list a material. Materials are to be listed by availability, type, geographic area and date. To **purchase** materials, one would contact the **waste exchange** company associated with the listing.

One component of the network is an electronic bulletin board...

...of additional source reduction and recycling information.

Purchasing possibilities

Lewis Cutler, president of Northeast Industrial **Waste Exchange** Inc., a non-profit organization in Syracuse, N.Y., says because the EPA reaches a wide audience, the network will be beneficial for the **waste exchange** business. But, he says, any company, particularly chemical companies, can save money while being environmentally...

...plant managers to look at the possibilities here."

Filling a need

One of the problems **waste exchange** businesses have had in the past is the way information has been distributed. Historically, the...

...He says the EPA's database will ensure that information is current and allow the **waste exchanges** to become more effective. It's important to note, says Curlin, "That the EPA is not running a **waste exchange**; it is echoing listings that are sent by industry to **waste exchanges**."

Indeed, the EPA encourages industry to use **waste exchanges** as part of its pollution prevention program. The idea is a good one, and deserves...

?

?ds

Set	Items	Description
S1	911968	WASTE? ? OR WASTESTREAM?
S2	1177977	DB OR DBS OR OODB OR RDB OR RDBMS OR RDBS OR RD OR DATABAS- E? OR DATABANK? OR DATAMIN? OR DATA() (BASE? OR BANK? OR MINE? OR MINING)
S3	4860090	NETWORK? OR NET()WORK? OR LAN OR WAN OR SERVER? ? INTRANET? OR EXTRANET
S4	8356680	WEB OR INTERNET? OR WEBPAGE? OR WEB()PAGE? OR WEBSITE? OR - WEB()SITE? OR ONLINE OR ON()LINE
S5	3126683	RECYCL? OR RECOVER? OR REUSE? OR REUSING OR REUSABLE? OR - RE() (USE? ? OR USING OR USABLE?) OR DISPOS? OR REPROCESS? OR. RE()PROCESS? OR SALVAG?
S6	13104329	PURCHASE? OR BUY? OR SELL? ? OR SELLING OR SOLD OR ACQUIR? OR ACQUISITION? OR TRANSACT?
S7	35041	S1 (S) S2:S4
S8	6859	S7 AND S1(5N)S5
S9	1929893	(RAW OR ORGANIC) () (MATERIAL? OR SUBSTANCE? OR ELEMENT?) OR CHEMICAL? ? OR COMPOUND?
S10	102576	(S1 OR S9) (5N)S6
S11	486	S10 (S)S8
S12	105	S11 (S) (B2B OR B2C OR P2P OR BUSINESS(2W) (BUSINESS OR CLI- ENT? OR CONSUMER?) OR PEER(2W)PEER OR ECOMMERCE OR E()COMMERC- E)
S13	98	RD (unique items)
S14	40	S13 NOT PY>2000
S15	21	S11 AND S1(5N)EXCHANG?
S16	19	RD (unique items)
S17	18	S16 NOT S14

?show files

File 15:ABI/Inform(R) 1971-2005/Jan 31  
(c) 2005 ProQuest Info&Learning

File 9:Business & Industry(R) Jul/1994-2005/Jan 31  
(c) 2005 The Gale Group

File 610:Business Wire 1999-2005/Feb 01  
(c) 2005 Business Wire.

File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire

File 476:Financial Times Fulltext 1982-2005/Feb 01  
(c) 2005 Financial Times Ltd

File 624:McGraw-Hill Publications 1985-2005/Jan 31  
(c) 2005 McGraw-Hill Co. Inc

File 613:PR Newswire 1999-2005/Feb 01  
(c) 2005 PR Newswire Association Inc

File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc

File 634:San Jose Mercury Jun 1985-2005/Jan 29  
(c) 2005 San Jose Mercury News

File 20:Dialog Global Reporter 1997-2005/Feb 01  
(c) 2005 The Dialog Corp.

File 647:CMP Computer Fulltext 1988-2005/Jan W3  
(c) 2005 CMP Media, LLC

File 674:Computer News Fulltext 1989-2005/Jan W3  
(c) 2005 IDG Communications

?

?t "s14/3,k/5,13,15,16,17,31,32

14/3,K/5 (Item 5 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2005 ProQuest Info&Learning. All rts. reserv.

00701800 93-51021

**The power of IT: How can information technology support TQEM?**

Johannson, Lynn

Total Quality Environmental Management v2n3 PP: 339-347 Spring 1993

ISSN: 1055-7571 JRNL CODE: TQE

WORD COUNT: 3106

...TEXT: e.g., scanners.

"These data bases, once established, must be kept current by the daily **transactions** of the **business** --e.g., **wastes** produced (by type and quantity), at which processes, exactly where the **wastes** are stored and exactly how much is stored there, **wastes** shipped (again by type and quantity), sites to where the **wastes** are shipped, which company transported which **wastes** , etc.

"It is apparent that the information available in the data base can be used  
...

14/3,K/13 (Item 1 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2005 Business Wire. All rts. reserv.

00328486 20000725207B0419 (USE FORMAT 7 FOR FULLTEXT)

**OAKLEAF Announces Strategic Alliance with Encompass**

Business Wire

Tuesday, July 25, 2000 09:24 EDT

JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 583

TEXT:

...customer service-oriented company in the waste industry. The company specializes in the management of **waste disposal** contracts and provides service management functions for large, multi-site customers in the retail, restaurant, hotel, manufacturing and property management industries. They also offer a full **e - commerce** interface enabling **on - line** bidding, consolidated invoicing, electronic billing, payment options, and service monitoring. One of OAKLEAF's strengths...

...in revenue. In addition, OAKLEAF plans to expand its coast to coast growth through the **acquisition** of other **waste** management services and brokerage firms.

Encompass Services Corporation, based in Houston, Texas, is the largest...

...largest cities. Additional information and press releases about Encompass are available on the company's **Web site** a [www.encomperv.com](http://www.encomperv.com).

14/3,K/15 (Item 1 from file: 476)  
DIALOG(R)File 476:Financial Times Fulltext  
(c) 2005 Financial Times Ltd. All rts. reserv.

0010581695 ACxxxxxx0292

**SURVEY - MASTERING MANAGEMENT: environmental managers** Environmental information systems began as a way of helping companies cope with mushrooming legislation. Now, their application has spread beyond recognition, says Dennis Rondinelli

DENNIS RONDINELLI

The Financial Times, Surveys ED, P 8

Monday, November 27, 2000

DOCUMENT TYPE: NEWSPAPER; Surveys LANGUAGE: ENGLISH RECORD TYPE:  
FULLTEXT

Word Count: 2,283

...automatically generate reports required by agencies in different states, localities and countries.

B2B marketplaces

As **e - commerce** expands, managers are paying more attention to the potential for using **B2B networks** for buying equipment, supplies and services. Corporations that have seen the advantages of **B2B networks** for organising supply chains and rationalising procurement in manufacturing also tend to see their advantages for obtaining their environmental products and services and, increasingly, for trading or **selling " waste "** materials.

Pratt & Whitney, General Motors and Reichhold Chemical are some of the major companies taking...

...and many companies in the chemical industry are using e-marketplaces to trade, transfer, or **sell** excess inventory, used assets and **" waste "** materials that might have ended up in landfills. **E - commerce** companies such as TradeOut, AssetTrade and Ubid are helping with this. Manufacturers such as Dow and Eastman have set up their own **internet** marketplaces and other companies are using electronic trading firms such as Chemconnect, CheMatch, and e-Chemicals. Forrester Research reports that the **online** market for excess materials in the chemical industry is expected to reach Dollars 128bn in...

14/3,K/16 (Item 1 from file: 613)

DIALOG(R)File 613:PR Newswire

(c) 2005 PR Newswire Association Inc. All rts. reserv.

00407343 20000905ATTU002 (USE FORMAT 7 FOR FULLTEXT)

**Facilitypro.Com Adds First Service Offering to B2b Marketplace; Signs Agreement with Oakleaf Waste Management**

PR Newswire

Tuesday, September 5, 2000 10:01 EDT

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 770

...com can be reached at 678-731-8534 or at  
www.facilitypro.com.

About OAKLEAF **Waste** Management

OAKLEAF **Waste** Management is a national and international **waste** management services firm leveraging the **buying** power of 40,000+ locations throughout the United States, Canada, Puerto Rico and Mexico. The company, which has grown 275% per year, specializes in the management of **waste disposal** contracts and provides service management functions for large, multi-site customers in the retail, restaurant, hotel; manufacturing and property management industries. They also offer a full **e - commerce** interface enabling **on - line** bidding, consolidated invoicing, electronic billing and payment options, and service monitoring. OAKLEAF also aggregates trash...

...projected to reach \$84 million.

Additional information about OAKLEAF is available on the company's **Web site** at [www.oakleafwastemgmt.com](http://www.oakleafwastemgmt.com) , or 1-888-OAKLEAF.

SOURCE FacilityPro.com

CONTACT: Jerry Goldstein of...

14/3,K/17 (Item 2 from file: 613)

DIALOG(R)File 613:PR Newswire

(c) 2005 PR Newswire Association Inc. All rts. reserv.

00375879 20000718DCTU034 (USE FORMAT 7 FOR FULLTEXT)

**Ventura Corporation Takes a New Approach to Web Hosting**

PR Newswire

Tuesday, July 18, 2000 11:24 EDT

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 628

...particularly beneficial to its emerging  
Internet clients. Currently, the company currently houses:

- \* Whereoware.com, a **business -to- business Web site** for the gift, collectibles and home accessories industry;
- \* Wastebid.com, a **Web site** for **buying waste and recycling** services and products;
- \* Loanchannel.com, a **Web site** bringing together all parties involved in obtaining a **business loan**; and
- \* TelecomHub.com, a **Web site** bringing together executives in the telecommunications and technology corridor of Northern Virginia.

In addition to...

14/3,K/31 (Item 8 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter

(c) 2005 The Dialog Corp. All rts. reserv.

06037465 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**BRAZIL: SOLID WASTE PRODUCTS & SERVICES MARKET (2)**

ALEXANDRE DE MATTOS POSSIK

INDUSTRY SECTOR ANALYSIS

April 25, 1999

JOURNAL CODE: FISA LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 4238

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... a private association for the recycling business. CAIMA acts like a database with purchase and **sell** interest information about solid **waste** . CAIMA is a branch of the Minas Gerais State

14/3,K/32 (Item 9 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter

(c) 2005 The Dialog Corp. All rts. reserv.

05709404 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Virtual waste: The Internet has become the happy home for one Clare-based company**

GEOFF PERCIVAL

BUSINESS AND FINANCE

May 27, 1999

JOURNAL CODE: FBFN LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 716

Buying and selling industrial waste on the Internet may not sound like a viable e - commerce model but for one Irish-based company and its owner, it has worked out very...  
?



?t.s14/9/32

14/9/32 (Item 9 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2005 The Dialog Corp. All rts. reserv.

05709404 (THIS IS THE FULLTEXT)

Virtual waste: The Internet has become the happy home for one Clare-based company

GEOFF PERCIVAL  
BUSINESS AND FINANCE  
May 27, 1999

JOURNAL CODE: FBFN LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 716

Buying and selling industrial waste on the Internet may not sound like a viable e-commerce model but for one Irish-based company and its owner, it has worked out very well.

A virtual company in the true sense of the meaning, Wastechange was set up in Clare over a year ago, although it is 100% Internet located. Essentially it acts as an on-line matchmaker for Irish-based companies wishing to trade waste and by-products that would otherwise be destined for landfill. Members, who are charged an annual fee of IR pounds 48 per company, can phone, fax or e-mail Wastechange with details of their waste materials. These are then listed on Wastechange's website ([www.wastechange.com](http://www.wastechange.com)) under the relevant categories. These include anything from batteries, metals and glass to food, rubber, plastics and wood.

'It's a very cost effective service. A waste producer can effectively solve its waste disposal problems for as little as IR pounds 48. In the non-virtual world, if you like, finding a match can cost them many thousands of pounds in consultancy fees, staff time or whatever. Any additional costs are down to the company but overall they'd be spending less than the landfill alternative,' according to managing director Sarah Howcroft.

'It's not just a service for companies looking for an alternative to dumping their waste. Those already providing to a reprocessor for recycling can use it as a cost comparison vehicle between their current recycling partners and potential new ones. It's a competitive industry in many ways. There's also a huge environmental gain. It's often a case of dual motivation. On the one hand there are definite cost savings while on the other there is environmental compliance, as many companies come under the waste management act,' she adds.

No volume quotas exist and there is no limit on the product types that can be listed. 'We will advertise it if its bona fide, legal and a waste with a market, which nearly everything has. There's nothing going into landfills that eventually can't be sorted,' says Howcroft. 'If we can demonstrate that there are large amounts of waste available in particular categories then maybe we can encourage the setting up of more recycling facilities and open up entrepreneurial avenues for people who can use our site as a map to show where the main demand in the country is located.

'There's a demand for waste and an increasing sense of responsibility among Irish waste producers, but it's hampered by communication problems. There are metal and chemical reprocessors in need of product, but it's a case of locating them. At the moment there are big holes in the Irish reprocessor market,' she says. Most of her clientele comes from the electronics and chemicals industries, even though she won't mention any of them by name on account of some of them being sensitive to people knowing of their waste arrangements. Though indigenous Irish customers are growing, the bulk tend to be foreign multinationals which are based in Ireland.

Getting support for the venture was not easy. The likes of Repack, Enterprise Ireland and IBEC have lent support, but initial funding was thin on the ground.

'Everything has been self funded. The government's funding arms either have no financing available until 2000 or feel the project is too premature. I think we've proved the idea works and I'm hopeful the government will soon take notice,' she adds.

Currently Wastechange is the only such service in Ireland. However, similar models are already proven in Germany and the US where the Internet

is more advanced and like-minded projects tend to be State owned.

Working as a one person enterprise backed up by her Psion organiser, mobile phone and website, Howcroft seems to have set up the perfect virtual company.

'It's very easy to get wound up in us being an Internet company. While we are using the Internet as a shop window and a tool for collating knowledge, the skill is in sorting out waste problems. It will, in the future, have major benefits for us as it allows us to trade globally. Right now it means we can communicate more easily. Every country has its own expertise in recycling and we can more readily tap into that and learn how Ireland and the company can work more effectively,' says Howcroft.

Copyright 1999 Business and Finance. Source: World Reporter (Trade Mark) - FT McCarthy.

DESCRIPTORS: Contracts or New Orders; Company News  
COUNTRY NAMES/CODES: Ireland (IE)  
REGIONS: Europe; European Union; Western Europe  
SIC CODES/DESCRIPTIONS: 7375 (Information Retrieval Services)  
?

?t, s17/3, k/1, 4, 6, 7, 9, 10, 14

17/3, K/1 (Item 1 from file: 15)  
DIALOG(R) File 15: ABI/Inform(R)  
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02174832 73666715

**Clicks and mortar**

O Connell, Kim A

Waste Age v32n6 PP: 40-42 Jun 2001

ISSN: 0043-1001 JRNL CODE: UAKT

WORD COUNT: 2313

...TEXT: sell. "We've also seen, over the past three or four years, a proliferation of **waste exchange** companies that are looking to change the way transactions are made," Officer says.

Although they...

...Leaders

When the partners of Gershman, Brickner & Bratton (GBB), Fairfax, Va., joined with other solid **waste** executives from the Baltimore-Washington area to create an **Internet** presence, they asked themselves, "what are people looking to **buy** from their **waste** management companies?" The answer was service. Looking to automate the process of seeking and finding a **waste** hauler or **recycler**, these solid **waste** veterans created WasteBid.com.

Conceived as a one-- stop shop for the waste and...

17/3, K/4 (Item 4 from file: 15)  
DIALOG(R) File 15: ABI/Inform(R)  
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00775440 94-24832

**Industrial ecology - An organizing framework for environmental management**

Lowe, Ernest

Total Quality Environmental Management v3n1 PP: 73-85 Autumn 1993

ISSN: 1055-7571 JRNL CODE: TQE

WORD COUNT: 4708

...TEXT: drug. Today, BP is helping to do just that--using its own proprietary process to **recover** and purify acetonitrile, a **waste** by-product of **chemical** manufacturing. **Sold** to the pharmaceuticals industry, purified aceto is used to make insulin, a drug that means... wastewater from a neighboring wastewater treatment plant for cooling, saving on energy and water costs.

\* **Waste** Systems Institute and Pacific Materials **Exchange** provide online listings of "**waste**" materials available. Such regional/national information networks enable Companies to find markets for by-products...

...The Kalundborg example also suggests explicit design of industrial ecosystems in industrial parks and regional **waste exchanges**. Dr. Raymond Cote at Dalhousie University in Nova Scotia and Dr. Paul Shrivastava at Bucknell...

17/3, K/6 (Item 6 from file: 15)  
DIALOG(R) File 15: ABI/Inform(R)  
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00673678 93-22899

**Reverse logistics in plastics recycling**

Pohlen, Terrance L; Farris, M Theodore II

International Journal of Physical Distribution & Logistics Management

...TEXT: may also own MRFs or intermediate processing facilities.

#### INTERMEDIATE PROCESSORS

Intermediate processors are "companies that **purchase** source-separated **recyclable** waste materials and, after processing, **sell** them for production of new materials and products" 14, p. 13!, and may purchase material...unique core competency to fill this role, particularly for smaller communities or low-volume producers. **Waste exchanges** have also emerged to fill the communications gap.

"A **Waste Exchange** is a specialized service which promotes and expedites the recycling of wastes by providing a network for linking wastes (industrial and municipal) with those who may recycle them 30!". **Waste exchanges** operate over regional electronic bulletin boards and offer a specialized classified advertising system. The exchanges...

...a source of information regarding waste generators, their material, and recyclers not otherwise readily available. **Waste exchanges** operate in several states and Canadian provinces.

The importance of communications within recycling will grow...by expanding the broker's role within the channel or promoting innovations such as the **waste exchange**. Cost-effective recycling requires greater communication within the channel and a reduction in the search...51.

29. "Polystyrene Densifier", Solid Waste Management Solutions, Mobil Chemical Company, Pittsford, New York.

30. " **Waste Exchanges** ", State of Ohio Environment Protection Agency, Columbus, OH, 19 September, 1991.

31. "Introduction to Recycled..."

17/3,K/7 (Item 1 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0276848 BW854

CINCINNATI BELL DIRCTY: Cincinnati Bell Directory introduces new computer online service to help businesses reduce waste and meet environmental mandates

April 30, 1992

Byline: Business Editors

...called TEAM-W: The Electronic Answer for Managing Waste, is an electronic marketplace for the **exchange** of re-usable and recyclable **waste** materials that would typically end up in landfills. CBD debuted TEAM-W at the Environmental...

...newsletters,  
federal, state and local contacts  
o Material Re-use Opportunities  
how to buy or **sell** materials using TEAM-W; regional **waste exchanges** ; regional **recycled** materials price sheet; list of materials available and wanted  
o Recycling and Composting Guidelines  
why...

17/3,K/9 (Item 2 from file: 624)  
DIALOG(R)File 624:McGraw-Hill Publications  
(c) 2005 McGraw-Hill Co. Inc. All rts. reserv.

0384599

**THIS SYSTEM IS LITERALLY GARBAGE IN, GARBAGE OUT**

EDITED BY FLEUR TEMPLETON

Business Week, Number 3267, Pg 81

May 25, 1992

JOURNAL CODE: BW

SECTION HEADING: Developments to Watch ISSN: 0007-7135

WORD COUNT: 140

TEXT:

With landfills overflowing and **recycling** programs faltering, **waste disposal** is a major concern--and expense--for businesses and communities. An Ohio company has one solution: an **on - line** market for businesses to **buy** and **sell** wastes .

Developed by Cincinnati Bell Directory (CBD) Co., a subsidiary of the telephone company, along with consultancies WasteNet and Environomics Inc., the **waste exchange** costs \$395 a year to join. Once on the system, companies advertise reusable or recyclable...

... packaging to petroleum products, while others request materials. Participants communicate directly on the system.

Other **waste exchanges** exist around the country, but this is the first computerized system that's interactive and...

17/3,K/10 (Item 1 from file: 613)  
DIALOG(R)File 613:PR Newswire  
(c) 2005 PR Newswire Association Inc. All rts. reserv.

0001179471 I16D50B30921C11D8AB9FA2A74D2F6590 (USE FORMAT 7 FOR FULLTEXT)  
**RecycleNet Corporation Launches Waste.Net Internet Network Reduces Waste to Landfills, Connects Regional Waste Exchanges**  
PR Newswire  
Monday, April 19, 2004 T15:56:00Z  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 507

**RecycleNet Corporation Launches Waste.Net Internet Network Reduces Waste to Landfills, Connects Regional Waste Exchanges**

TEXT:

...BOARD: GARM) is launching Waste.Net (<http://www.waste.net/>), an umbrella that networks regional **waste exchanges** .

**Waste .Net**, a **FREE buy / sell /trade** exchange, was established to assist everyone in his or her waste minimization efforts. Commercial...

...is for Waste.Net to foster the establishment of additional local, regional and industry specific **waste exchanges** , which will reduce the disposal of waste entering landfills and preserve valuable resources. Good stewardship...

...the management of waste in a manner that is environmentally responsible, efficient, profitable, and ethical.

**RecycleNet** acquired the **Waste .Net** website via **RecycleNet 's**

OldWebSites.Com strategy of purchasing and retooling existing web portals. OldWebSites.Com (<http://www.oldwebsites.com/>) is a new service allowing owners of websites to easily list and sell their sites directly to RecycleNet. The Company said the acquisition and reuse of Waste .Net is an example of the market opportunity available for buying and recycling websites .

About RecycleNet:

RecycleNet Corporation (OTC-BB: GARM) was founded in 1995 as an online trading...

17/3,K/14 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2005 The Dialog Corp. All rts. reserv.

35073980 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**RecycleNet Corporation Launches Waste.Net**  
PR NEWSWIRE (US)  
April 19, 2004  
JOURNAL CODE: WPRU LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 505

(USE FORMAT 7 OR 9 FOR FULLTEXT)

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